User Manual

EAZ0057B05G Rev.A

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Snap-on reserves the right to make changes at any time without notice.

Contact Information

Websites:

Snap-on Diagnostics and Information

http://diagnostics.snapon.co.uk

http://www1.snapon.com/diagnostics/UK/Diagnostics/ShopStreamConnect.htm

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For technical assistance in all other markets, contact your selling agent

EAZ0057B05G Rev.A 8-G-15 GB

Safety Information

For your own safety, the safety of others, and to prevent damage to the product and vehicles upon which it is used, it is important that all instructions and safety messages in this manual and the accompanying *Important Safety Instructions* manual be read and understood by all persons operating, or coming into contact with the product, before operating. We suggest you store a copy of each manual near the product in sight of the operator.

For your safety, read all instructions. Use your Diagnostic Tools only as described in the Diagnostics Tool user's manual. Use only manufacturer recommended parts and accessories with your Diagnostic Tools.

This product is intended for use by properly trained and skilled professional automotive technicians. The safety messages presented throughout this manual and the accompanying *Important Safety Instructions* manual are reminders to the operator to exercise extreme care when using this product.

There are many variations in procedures, techniques, tools, and parts for servicing vehicles, as well as in the skill of the individual doing the work. Because of the vast number of test applications and variations in the products that can be tested with this instrument, we cannot possibly anticipate or provide advice or safety messages to cover every situation. It is the responsibility of the automotive technician to be knowledgeable of the system being tested. It is essential to use proper service methods and test procedures. It is important to perform tests in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area, the equipment being used, or the vehicle being tested.

It is assumed that the operator has a thorough understanding of vehicle systems before using this product. Understanding of these system principles and operating theories is necessary for competent, safe and accurate use of this instrument.

Before using the equipment, always refer to and follow the safety messages and applicable test procedures provided by the manufacturer of the vehicle or equipment being tested. Use the product only as described in it's user manual. Use only manufacturer recommended parts and accessories with your product.

Read, understand and follow all safety messages and instructions in this manual, the accompanying *Important Safety Instructions* manual, and on the test equipment.

Environmental Conditions:

- This product is intended for indoor use only
- This product is rated for Pollution Degree 2 (normal conditions)

Safety Signal Words

All safety messages contain a safety signal word that indicates the level of the hazard. An icon, when present, gives a graphical description of the hazard. Safety Signal words are:

⚠ DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.

⚠ WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.

⚠ CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor injury to the operator or to bystanders.

Safety Message Conventions

Safety messages are provided to help prevent personal injury and equipment damage. Safety messages communicate the hazard, hazard avoidance and possible consequences using three different type styles:

- Normal type states the hazard.
- **Bold type states how to avoid the hazard.**
- *Italic type states the possible consequences of not avoiding the hazard.*

An icon, when present, gives a graphical description of the potential hazard.

Safety Message Example

⚠ WARNING

Risk of unexpected vehicle movement.

- **Block drive wheels before performing a test with engine running.**

A moving vehicle can cause injury.

Important Safety Instructions

For a complete list of safety messages, refer to the accompanying *Important Safety Instructions* manual provided with your Diagnostic Tool or on our website. See the website contact information on page ii for website addresses.

SAVE THESE INSTRUCTIONS

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Chapter 1 Using This Manual

1.1 Content

This manual contains basic operating instructions and is structured in a manner to help you become familiar with and perform basic operations.

The illustrations in this manual are intended as reference only and may not depict actual screen results, information, functions or standard equipment.

1.2 Conventions

The following conventions are used.

1.2.1 Terminology

The terms “Scanner” and “Scanner function” are used to describe the Scanner Function(s) of the Diagnostic Tool.

Examples:

- Select **Scanner** from the Home screen.
- From the Scanner main menu select **Continue**.
- The Scanner function provides many diagnostic tests.

The term “select” describes tapping/touching an icon on the touch screen, or highlighting an icon or menu choice and then selecting the confirmation menu choice such as **Continue, Accept**, **OK**, **Yes, or other similar** choice.

Abbreviated example for the following procedure: “Select **Brightness**”

1. Navigate to and highlight the **Brightness** selection.
2. Select **OK, or similar,** button.

1.2.2 Symbols

Different types of arrows are used. The “greater than” arrow (**>**) indicates an abbreviated set of selection (navigation) instructions.

Abbreviated example for the following procedure: “Select **Tools > Connect-to-PC**”

1. Select **Tools** from the home screen.
2. Highlight **Connect-to-PC** on the Tools menu.
3. Select **Connect-to-PC**.

The solid arrows (◄, ►, ▼, ▲) are navigational instructions for the four directions of the directional buttons.

Example: Press the down ▼ arrow.

1.2.3 Bold Text

Bold emphasis is used in procedures to highlight selectable items such as control buttons, icons and menu options.

Example: Press the **OK** button

1.2.4 Notes and Important Messages

The following messages are used.

Notes

A NOTE provides helpful information such as additional explanations, tips, and comments.

Example:

NOTE:
For additional information refer to...

Important

IMPORTANT indicates a situation which, if not avoided, may result in damage to the test equipment or vehicle.

Example:

IMPORTANT:
Do not disconnect the data cable while the Diagnostic Tool is communicating with the ECM.

1.2.5 Hyperlinks

Hyperlinks, or hot links, that take you to other related articles, procedures, and illustrations are available in electronic documents. Blue colored text indicates a selectable hyperlink.

Example:

IMPORTANT:
Read all applicable Safety Information before using this Diagnostic Tool!

1.2.6 Procedures

An arrow icon in the left-margin area indicates a procedure.

Example:

To change screen views:

1. Select the **Graph** icon.
   The dropdown menu displays.
2. Select an option from the menu.
   The screen layout changes to the format selected.

Chapter 2 Introduction

The ShopStream Connect™ software is PC-based software that extends the capabilities of your Diagnostic Tools. Using ShopStream Connect software with your Diagnostic Tools allows you to do the following:

- Exchange data files bi-directionally between the Diagnostic Tool and the PC.
- View Diagnostic Tool data files on a PC screen.
- Add or edit notes and comments to Diagnostic Tool data files.
- Install software updates from a PC onto the Diagnostic Tool.

ShopStream Connect can be used with the following Diagnostic Tools:

- ETHOS®
- ETHOS®+
- MICROSCAN®
- MICROSCAN® III
- MODIS
- MODIS Ultra
- SOLUS™
- SOLUS™ PRO
- SOLUS Ultra®
- Vantage PRO™
- VANTAGE® Ultra

Chapter 3 Downloading and Installing ShopStream Connect

ShopStream Connect software should only be installed on a personal computer (PC) meeting the minimum requirements listed below.

3.1 Verifying Minimum PC Requirements

IMPORTANT:
If your PC does not meet the minimum requirements, do not attempt to install the ShopStream Connect software.

Before installing the software, verify your PC meets the following requirements:

- System Properties:
  - Operating system—Windows® XP, 7, 8 or 8.1 (Windows XP must be updated to Microsoft .NET Framework Version 4.0)
  - Processor—Intel® Pentium 4 or later, or equivalent
  - Memory—256 MB minimum, 512 MB recommended
- Hard Drive—500 MB free space
- CD-ROM, DVD, or DVD-ROM drive (*optional*)
- USB 2.0 or later
- Internet Explorer 6.0 or higher
- Internet connection
- Adobe® Reader software (free download at www.adobe.com/products/reader)

A USB cable is also needed to connect the Diagnostic Tool to the PC. The type of USB cable needed varies by the type of Diagnostic Tool:

  - ETHOS, ETHOS+, MICROSCAN III, MODIS, MODIS Ultra, SOLUS PRO, SOLUS Ultra, and Vantage PRO and Vantage Ultra use a type mini A USB cable.
  - SOLUS and MICROSCAN use a type A/B USB cable.

IMPORTANT:
Older MODIS Diagnostic Tools do not have a type mini A USB port, and therefore cannot be directly updated using ShopStream Connect. The USB port is located under the left handgrip on the circuit board near the side CF card slot. If there is no USB port, the program CF card (in the side slot) can be updated through ShopStream Connect using a CF card reader/writer.

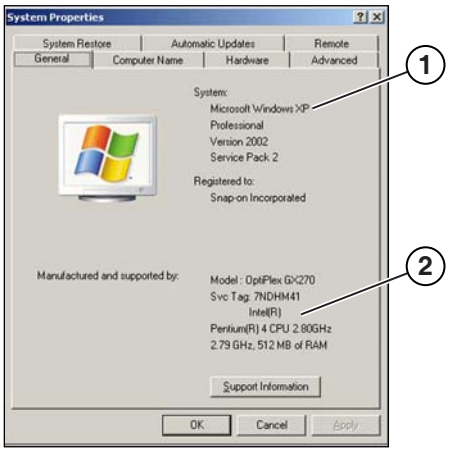
A CompactFlash® (CF) card reader is also needed for updating SOLUS, Vantage PRO, and early MODIS Diagnostic Tools.

3.1.1 Verifying PC System Properties

Follow the procedures below to check your PC system properties and to determine how much free space is available on your hard drive.

To check your PC system properties:

1. On the Desktop, right-click **My Computer** to open the menu.
2. Select **Properties** from the menu.
   The **System Properties** dialog box displays with your system information (Figure 3-1).



1— System property information

2— Hard drive information

Figure 3-1 *Typical Windows XP System Properties dialog box*

To check PC hard drive free space:

1. On the Desktop, double-click **My Computer**.
2. Select **View** > **Details** (Figure 3-2).

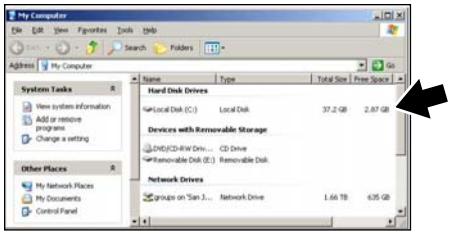


Figure 3-2 *Typical PC hard drive free space details*

3.2 Download and Installation

Follow the procedure below to download the ShopStream Connect software.

To download the software:

1. From your PC, using your Internet browser, go to the ShopStream Connect website. See website information on page **"ii"** of this manual.
2. Locate the ShopStream Connect software download.
3. Follow the on-screen instructions.

After downloading, install the ShopStream Connect software onto your PC as follows.

To install the ShopStream Connect software:

1. Locate the ShopStream Connect software installer that downloaded onto your PC, and then double-click **ShopStreamConnect.exe**

   The Setup Wizard launches and a welcome screen displays.
2. Select **Next** to begin the installation (Figure 3-3).

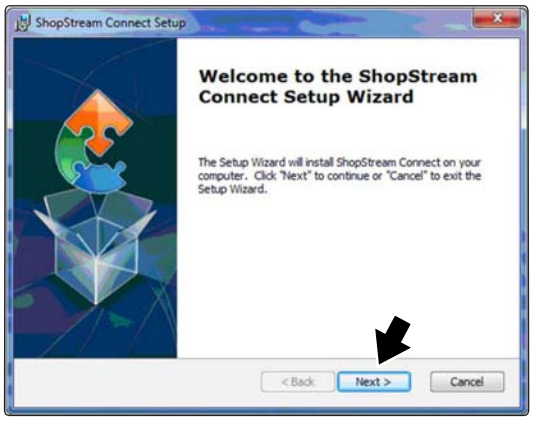

ShopStream Connect Setup
Welcome to the ShopStream Connect Setup Wizard
The Setup Wizard will install ShopStream Connect on your computer. Click "Next" to continue or "Cancel" to exit the Setup Wizard.
< Back
Next >
Cancel

Figure 3-3 *Typical Welcome screen*

   A Select Market screen opens.
3. Choose your geographical market location.

   A Software License Agreement screen opens.
4. From the License Agreement screen:
   a. Scroll to read through the entire Snap-on Incorporated Software License Agreement.
   b. Select the **I accept the terms of the license agreement** check box.
   c. Select **Next** to continue (Figure 3-4).

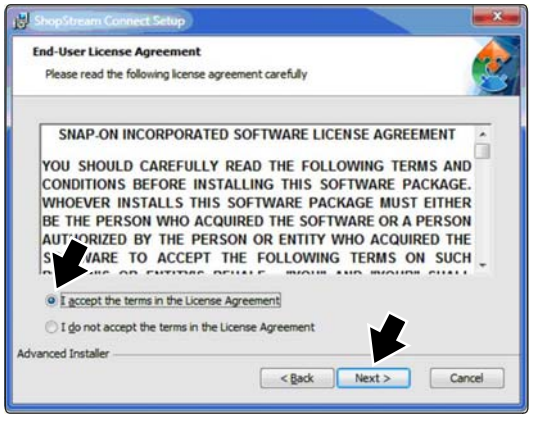

ShopStream Connect Setup
End-User License Agreement
Please read the following license agreement carefully
SNAP-ON INCORPORATED SOFTWARE LICENSE AGREEMENT
YOU SHOULD CAREFULLY READ THE FOLLOWING TERMS AND CONDITIONS BEFORE INSTALLING THIS SOFTWARE PACKAGE. WHOEVER INSTALLS THIS SOFTWARE PACKAGE MUST EITHER BE THE PERSON WHO ACQUIRED THE SOFTWARE OR A PERSON
I accept the terms in the License Agreement
I do not accept the terms in the License Agreement
Advanced Installer
< Back
Next >
Cancel

Figure 3-4 *Typical License Agreement screen*

A Ready to Install screen displays.

5. Select **Install** to begin installation (Figure 3-5).
   Then the Setup Status screen tracks the progress as the program installs.

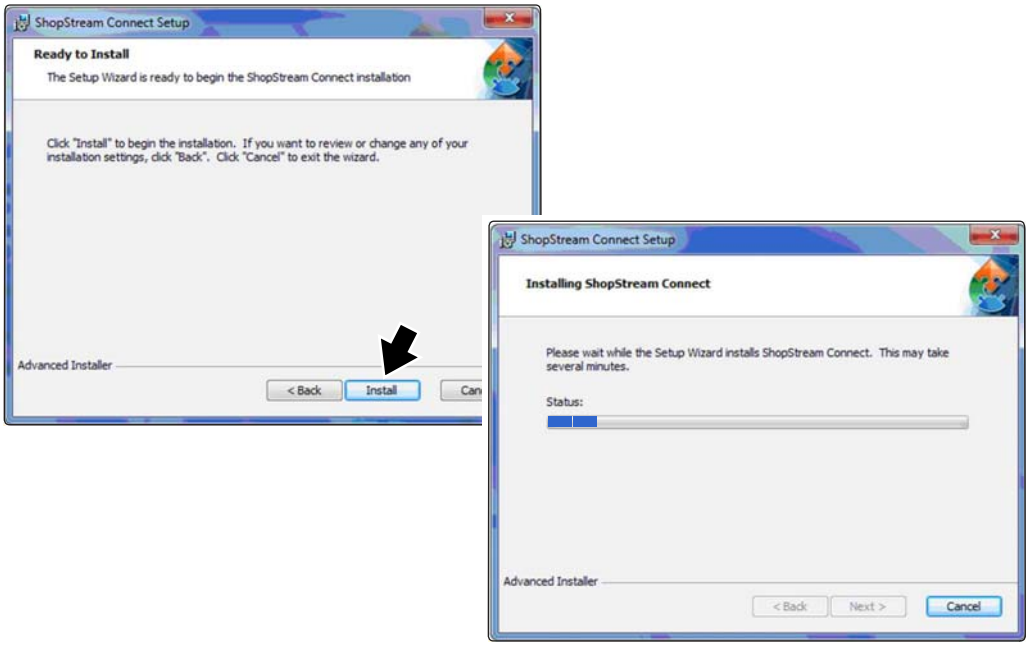

ShopStream Connect Setup
Ready to Install
The Setup Wizard is ready to begin the ShopStream Connect installation
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.
Advanced Installer
< Back
Install
ShopStream Connect Setup
Installing ShopStream Connect
Please wait while the Setup Wizard installs ShopStream Connect. This may take several minutes.
Status:
Advanced Installer
< Back
Next >
Cancel

Figure 3-5 *Typical install and status screens*

6. Select **Finish** to close the Install Wizard when prompted (Figure 3-6).

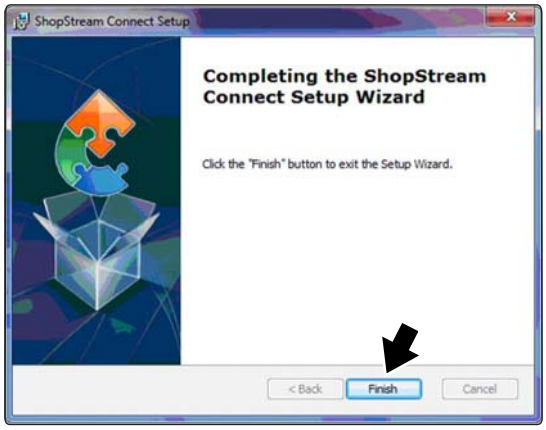


Figure 3-6 *Typical Complete screen*

A shortcut icon is added to the desktop (Figure 3-7).

Figure 3-7 *ShopStream Connect icon*

7. Double-click the desktop shortcut icon to start ShopStream Connect.

Chapter 4 Getting Started

This section explains how to connect your Diagnostic Tool to your personal computer (PC), and how to establish communication with the ShopStream Connect™ software.

IMPORTANT:
First, the ShopStream Connect software must be installed on your PC. See, "Downloading and Installing ShopStream Connect" on page 6 for additional information.

4.1 Starting the Software

The ShopStream Connect software runs on your PC. Starting the software can vary depending on the Windows operating system installed on your PC and your setup preferences. Typically the software can be started from:

- The Windows Start menu
- The ShopStream Connect shortcut icon on the Windows desktop (automatically created during installation)

To start from the Windows desktop:

- Double-click **ShopStream Connect** shortcut icon.

To start from the Windows Start menu:

- Select **Start > Programs > ShopStream Connect > ShopStream Connect** (Figure 4-1 and Figure 4-2).

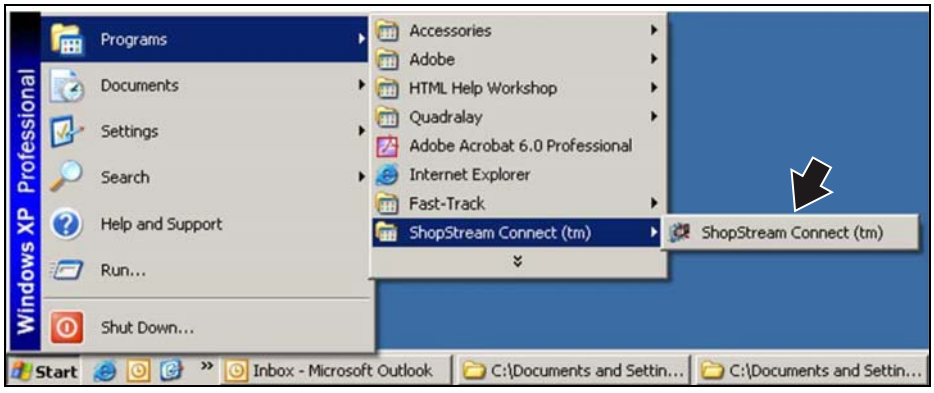


Figure 4-1 *Start menu selection (Typical - Windows XP Professional shown)*

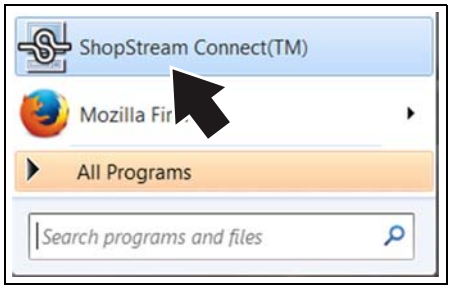
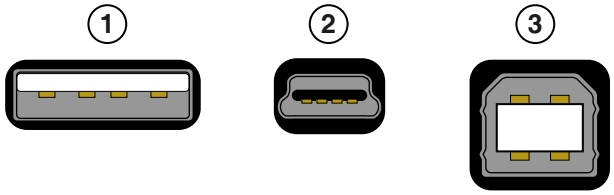


Figure 4-2 *Start menu selection (Typical - Windows 7 shown)*

4.2 Connecting a Diagnostic Tool to a PC

Two types of USB cable (Mini A type and A/B type) are used to connect Diagnostic Tools to your PC. There are three types of USB cable connector (Figure 4-3):



1— Type A connector—used on your PC

2— Type mini A connector—used on ETHOS, ETHOS+, MICROSCAN III, MODIS, MODIS Ultra, SOLUS PRO, SOLUS Ultra, Vantage PRO and Vantage Ultra

3— Type B connector—used on MICROSCAN and SOLUS

Figure 4-3 *USB connector types*

To connect a Diagnostic Tool to a PC:

1. Plug the Type A end of a USB cable into a Type A USB port on your PC.
2. Plug the other end of the USB cable into the appropriate USB port on the Diagnostic Tool:
   – **ETHOS**—mini A USB port on top of the Diagnostic Tool (Figure 4-4).

Figure 4-4

   – **ETHOS+** —mini A USB port on top of the Diagnostic Tool (Figure 4-5).

Figure 4-5

   – **MICROSCAN**—type B USB port on top of the Diagnostic Tool (Figure 4-6).

Figure 4-6

– **MICROSCAN III**—type mini A USB port on top of the Diagnostic Tool (Figure 4-7).

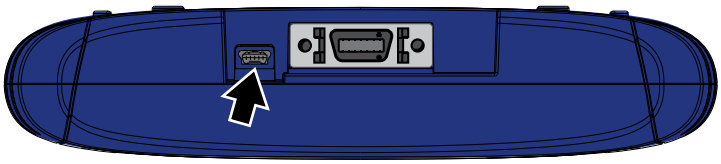


Figure 4-7

– **MODIS**—mini A USB port mounted on the circuit board, above the compact flash card under the left handgrip of the Diagnostic Tool (Figure 4-8).

Figure 4-8

IMPORTANT:
Older MODIS Diagnostic Tools do not have a USB port on the circuit board by the side CF card slot, and they cannot be connected to a PC with a cable. However, saved files can be viewed with ShopStream Connect and older Diagnostic Tools can be upgraded to current specifications. Refer to "Communicating with Early MODIS Diagnostic Tools" on page 68 for additional information.

– **MODIS Ultra**—mini A USB port on top of the Diagnostic Tool (Figure 4-9).

Figure 4-9

– **SOLUS**—type B USB port on top of the Diagnostic Tool (Figure 4-10).

Figure 4-10

– **SOLUS PRO**—mini A USB port on top of the Diagnostic Tool (Figure 4-11).

Figure 4-11

– **SOLUS Ultra**—mini A USB port on top of the Diagnostic Tool (Figure 4-12).

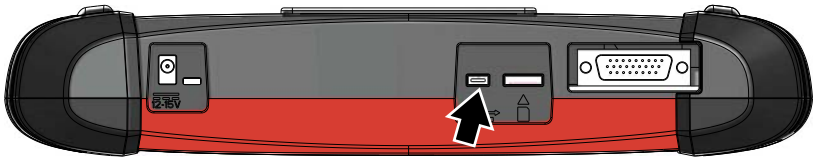


Figure 4-12

– **Vantage PRO**—mini A USB port under the sliding panel on top of the Diagnostic Tool. (Figure 4-13).

Figure 4-13

– **Vantage Ultra**—mini A USB port on top of the Diagnostic Tool. (Figure 4-14).

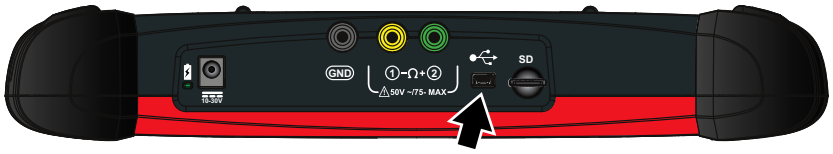


Figure 4-14

4.3 Establishing Communication

Establishing communication varies slightly for each Diagnostic Tool. Use one of the following procedures to establish communication between your Diagnostic Tool and your PC:

- ETHOS refer to page 14
- ETHOS+ refer to page 15
- MICROSCAN refer to page 17
- MICROSCAN III refer to page 17
- MODIS refer to page 18
- MODIS Ultra refer to page 19
- SOLUS refer to page 20
- SOLUS PRO refer to page 21
- SOLUS Ultra refer to page 22
- Vantage PRO refer to page 23
- Vantage Ultra refer to page 24

4.3.1 ETHOS

To establish communication with your ETHOS Diagnostic Tool:

1. Power off the ETHOS Diagnostic Tool.
2. On the PC, start the ShopStream Connect software (see "Starting the Software" on page 10).
3. On the ETHOS Diagnostic Tool, simultaneously hold down the **Y/✓** and **N/x** buttons, and then press the **Power** button.

   The Service Menu displays (Figure 4-15).

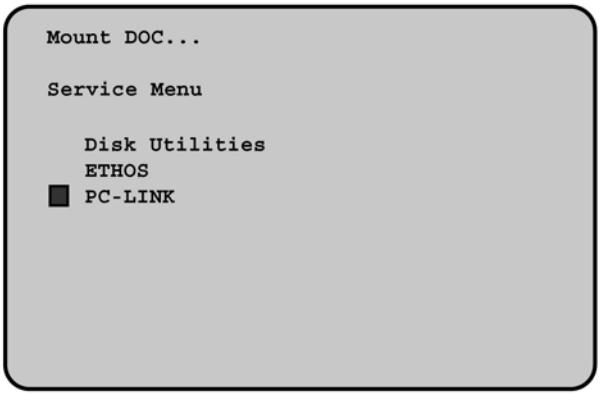


Figure 4-15 *Service menu*

4. On the ETHOS Diagnostic Tool, from the Service Menu, select **PC-LINK**.
5. Connect the USB cable to both the ETHOS Diagnostic Tool and the PC.

IMPORTANT:
Unless you are specifically instructed to do so and have precise instructions, do not attempt to use any other functions on the Service Menu. Improper use of Service Menu functions can corrupt the internal file structure and render the Diagnostic Tool inoperative.

6. If a “removable disk” dialog automatically opens on your PC, select **Cancel**.
7. ShopStream Connect should default to display the data stored on your ETHOS Diagnostic Tool. If not, select **ETHOS** from the end of the file directory list.

   Once communication is established between your PC and ETHOS, the Mounting screen displays on your ETHOS Diagnostic Tool (Figure 4-16).

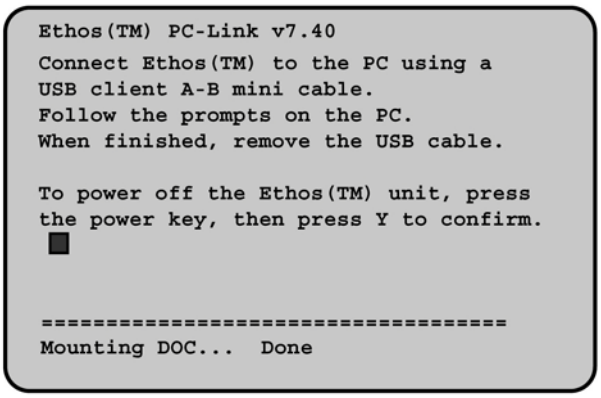

Ethos(TM) PC-Link v7.40
Connect Ethos(TM) to the PC using a
USB client A-B mini cable.
Follow the prompts on the PC.
When finished, remove the USB cable.
To power off the Ethos(TM) unit, press
the power key, then press Y to confirm.
Mounting DOC... Done

Figure 4-16 *Mounting screen*

4.3.2 ETHOS+

To establish communication with your ETHOS+ Diagnostic Tool:

1. Press the **Power** button to turn on the ETHOS+ Diagnostic Tool.
2. Connect the USB cable between the ETHOS+ and your PC:
   a. The type A connector cable end attaches to a USB port on the PC.
   b. The type mini A connector cable end attaches to the USB port on top of the ETHOS+.
3. From the Home screen, select **Tools** > **Connect-to-PC**.

   The screen message shows the Diagnostic Tool is ready to connect to a PC (Figure 4-17).

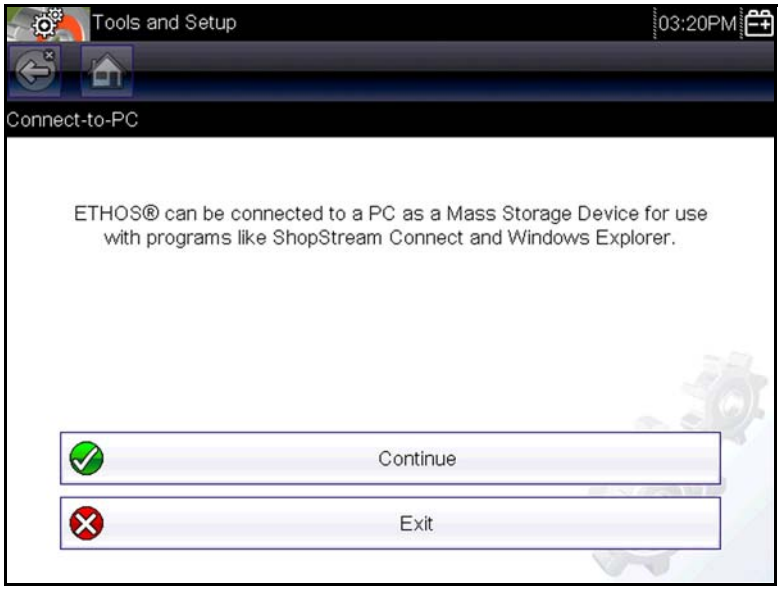

Tools and Setup
03:20PM
Connect-to-PC
ETHOS® can be connected to a PC as a Mass Storage Device for use with programs like ShopStream Connect and Windows Explorer.
Continue
Exit

Figure 4-17 *Ready to connect screen (ETHOS+)*

4. Select **Continue** once the USB cable has been connected.

   The screen message now changes to show the ETHOS+ and PC are connected (Figure 4-18)

5. Launch ShopStream Connect (see "Starting the Software" on page 10).

   ShopStream Connect should default to display the data stored on your ETHOS+ Diagnostic Tool. If not, select **ETHOS+** from the end of the file directory list.

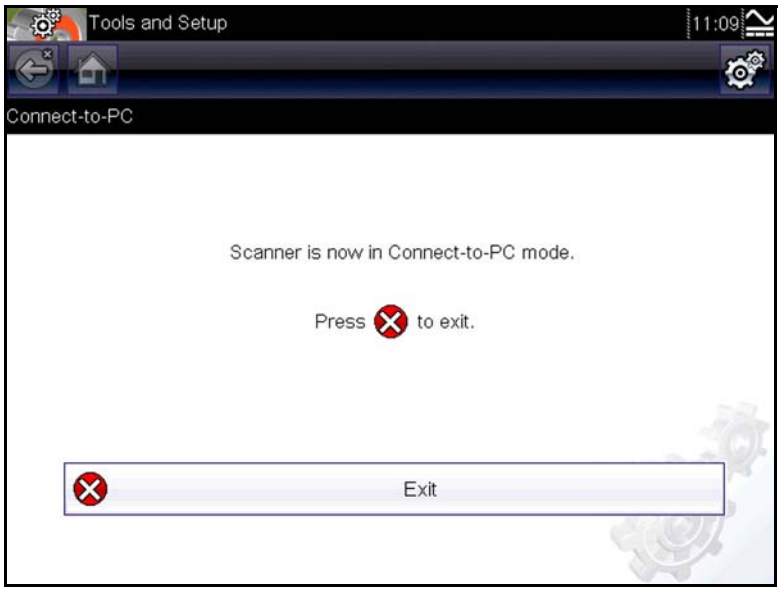


Figure 4-18 *In Connect-to-PC mode message (ETHOS+)*

4.3.3 MICROSCAN

To establish communication with your MICROSCAN Diagnostic Tool:

1. Connect the A end of the Type A/B USB cable to a USB port on the PC.
2. Connect the B end of the USB cable to the port on top of the MICROSCAN Diagnostic Tool.

   The MICROSCAN automatically powers up and displays the service menu.
3. Highlight **Connect to PC** on the MICROSCAN service menu (Figure 4-19).

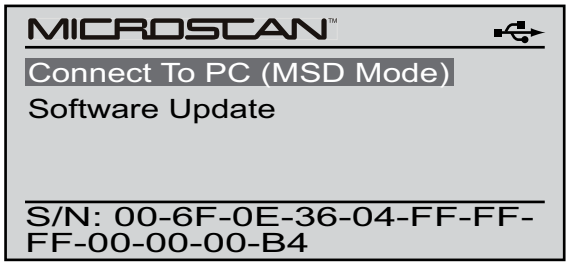


Figure 4-19 *Connect to PC screen*

4. Press **Y** on the MICROSCAN to make the selection.

   The MICROSCAN screen changes to indicate it is now connected to the PC.
5. Double click **ShopStream Connect** from the desktop on your PC to launch the program.
6. ShopStream Connect should default to display the data stored on your MICROSCAN Diagnostic Tool. If not, select **MICROSCAN** from the end of the file directory list.

4.3.4 MICROSCAN III

To establish communication with your MICROSCAN III Diagnostic Tool:

1. Connect the A end of the USB cable to a USB port on the PC.
2. Connect the mini A end of the USB cable to the port on top of the MICROSCAN III Diagnostic Tool.

   The MICROSCAN III automatically powers up to the USB Power Menu (Figure 4-20).

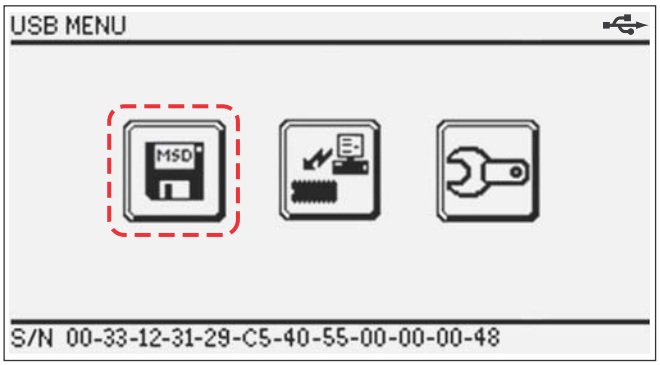


Figure 4-20 *Connect to PC screen*

3. Select **Connect to PC** on the MICROSCAN III touch screen.

The MICROSCAN III screen changes to indicate it is now connected to the PC.

4. Double click **ShopStream Connect** from the desktop of your PC to launch the program.
5. ShopStream Connect should default to display the data stored on your MICROSCAN III Diagnostic Tool. If not, select **MICROSCAN III** from the end of the file directory list.

4.3.5 MODIS

To establish communication with your MODIS Diagnostic Tool:

IMPORTANT:
Older MODIS Diagnostic Tools do not have a USB port on the circuit board by the side CF card slot, and they cannot be connected to a PC with a cable. However, saved files can be viewed with ShopStream Connect and older Diagnostic Tools can be upgraded to current specifications. Refer to "Communicating with Early MODIS Diagnostic Tools" on page 68 for additional information.

1. Press the **Power** button to turn on the MODIS Diagnostic Tool.
2. From the Main Menu, Select **UTILITIES > Connect to PC**, and press **Y**.
3. Press **Y** to turn off the Diagnostic Tool when the configure for Connect to PC message displays.
4. Press the **Power** button to turn on the MODIS Diagnostic Tool.

   A Connect to PC mode message displays (Figure 4-21)

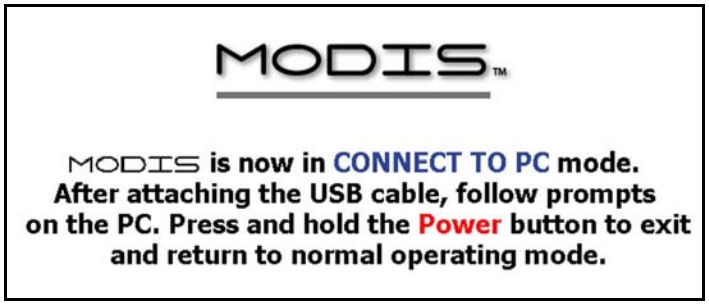
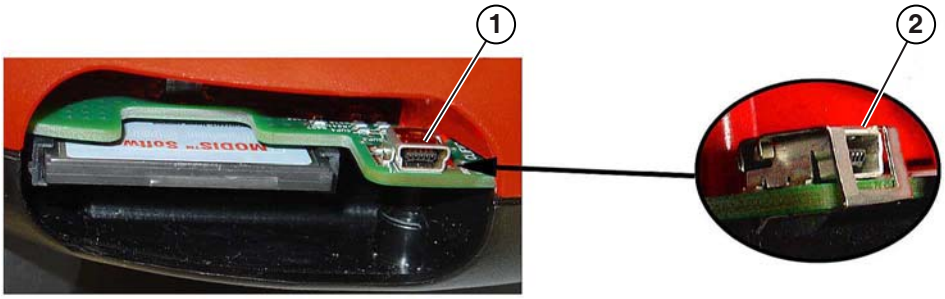

MODIS™
MODIS is now in CONNECT TO PC mode.
After attaching the USB cable, follow prompts
on the PC. Press and hold the Power button to exit
and return to normal operating mode.

Figure 4-21 *MODIS in Connect to PC mode message*

5. Connect the USB cable between the MODIS and your PC:
   a. The type A connector cable end attaches to a USB port on the PC.
   b. The type mini A cable connector attaches to the mini USB port, which is mounted on the circuit board, above the CF card under the left handgrip of the MODIS Diagnostic Tool.

IMPORTANT:
A USB mini A strain relief clip (EAS2036L38A) must be installed (Figure 4-22). The clip is a thin metal shield that surrounds the connector and secures it to the circuit board. Contact your selling agent if you need the clip.



1— MODIS mini A USB port without a strain relief clip

2— Strain relief clip installed on a MODIS mini A USB port

Figure 4-22 *Strain Relief Clip EAS2036L38A*

6. If a “removable disk” dialog automatically opens on your PC, select **Cancel**.
7. Launch ShopStream Connect (see "Starting the Software" on page 10).

   ShopStream Connect should default to display the data stored on your MODIS Diagnostic Tool. If not, select **MODIS** from the end of the file directory list.

4.3.6 MODIS Ultra

To establish communication with your MODIS Ultra Diagnostic Tool:

1. Press the **Power** button to turn on the MODIS Ultra Diagnostic Tool.
2. Connect the USB cable between the MODIS Ultra and your PC:
   a. The type A connector cable end attaches to a USB port on the PC.
   b. The type mini A connector cable end attaches to the USB port on top of the MODIS Ultra.
3. From the Home screen, select **Tools** > **Connect-to-PC**.

   The screen message shows the Diagnostic Tool is ready to connect to a PC (Figure 4-23).

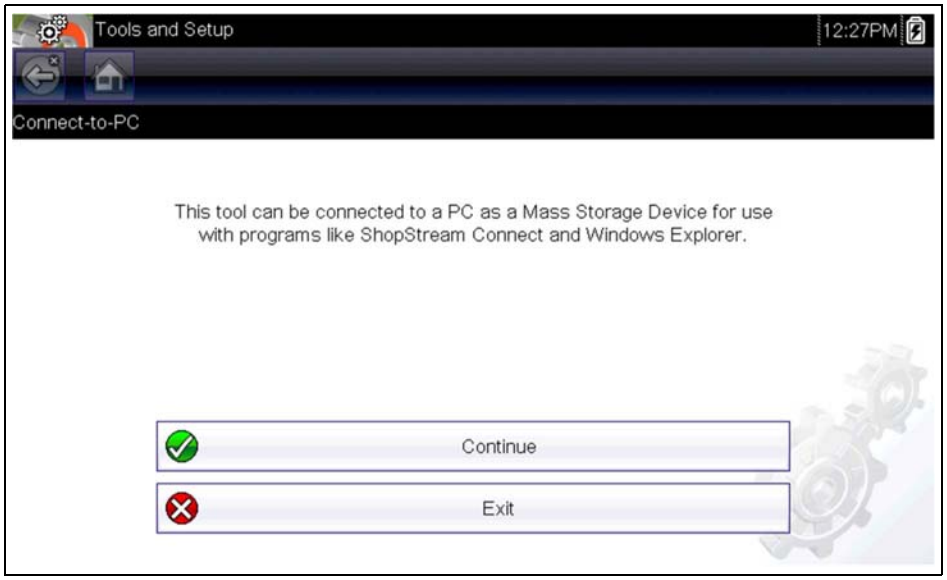

Tools and Setup
12:27PM
Connect-to-PC
This tool can be connected to a PC as a Mass Storage Device for use with programs like ShopStream Connect and Windows Explorer.
Continue
Exit

Figure 4-23 *Modis Ultra ready to connect screen*

4. Select **Continue** once the USB cable has been connected.
   A screen message shows the MODIS Ultra and PC are connected (Figure 4-24).

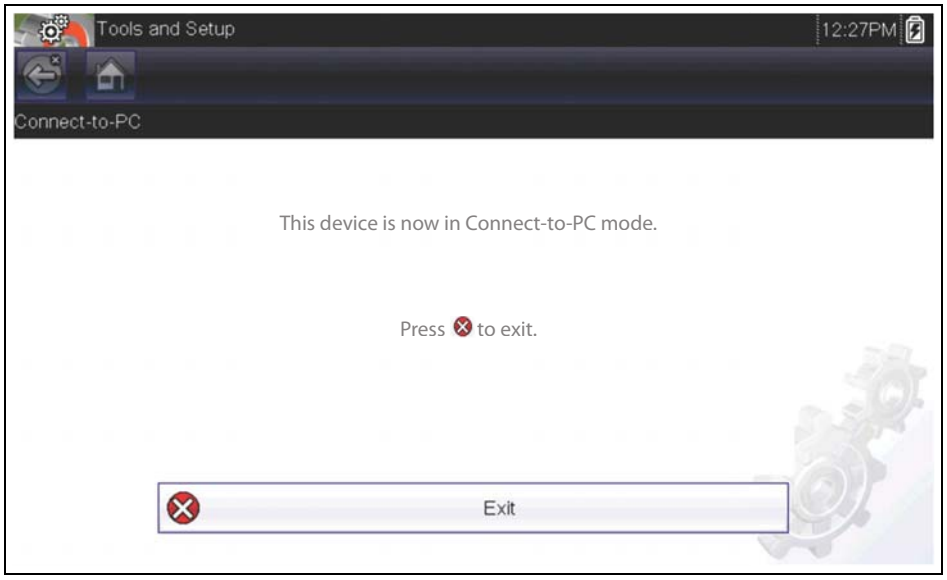


Figure 4-24 *Modis Ultra in Connect-to-PC mode message*

5. Launch ShopStream Connect (see "Starting the Software" on page 10).
   ShopStream Connect should default to display the data stored on your MODIS Ultra Diagnostic Tool. If not, select **MODIS Ultra** from the end of the file directory list.

4.3.7 SOLUS

To establish communication with your SOLUS Diagnostic Tool:

1. Press the **Power** button to turn on the SOLUS Diagnostic Tool.
2. From the Main Menu, navigate to **UTILITIES > Connect to PC** (Figure 4-25).

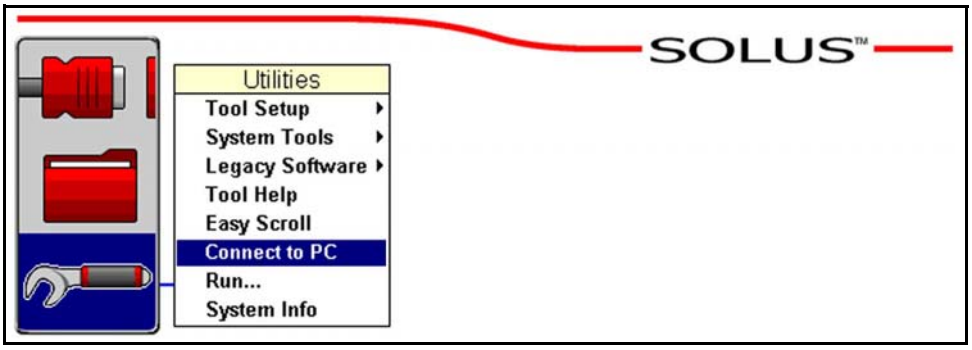


Figure 4-25 *SOLUS utilities menu*

3. Press **Y**, then a configuring for Connect to PC message displays.
4. Press **Y** to turn off the SOLUS Diagnostic Tool.
5. Press the **Power** button to turn on the SOLUS Diagnostic Tool and a message displays (Figure 4-26).

SOLUS is now in CONNECT TO PC mode.
SOLUS™
After attaching the USB cable, follow prompts on the PC. Press the Power button to exit and return to normal operating mode.

Figure 4-26 *SOLUS in Connect to PC mode message*

6. Connect the USB cable between the SOLUS and your PC:
   a. The type A connector cable end attaches to a USB port on the PC.
   b. The type B connector cable end attaches to the USB port on top of the SOLUS Diagnostic Tool.
7. If a “removable disk” dialog automatically opens on your PC, select **Cancel**.
8. Launch ShopStream Connect (see "Starting the Software" on page 10).

   ShopStream Connect should default to display the data stored on your SOLUS Diagnostic Tool. If not, select **SOLUS** from the end of the file directory list.

4.3.8 SOLUS PRO

To establish communication with your SOLUS PRO Diagnostic Tool:

1. Press the **Power** button to turn on the SOLUS PRO Diagnostic Tool.
2. From the Main Menu, navigate to **UTILITIES > Connect to PC** (Figure 4-27).

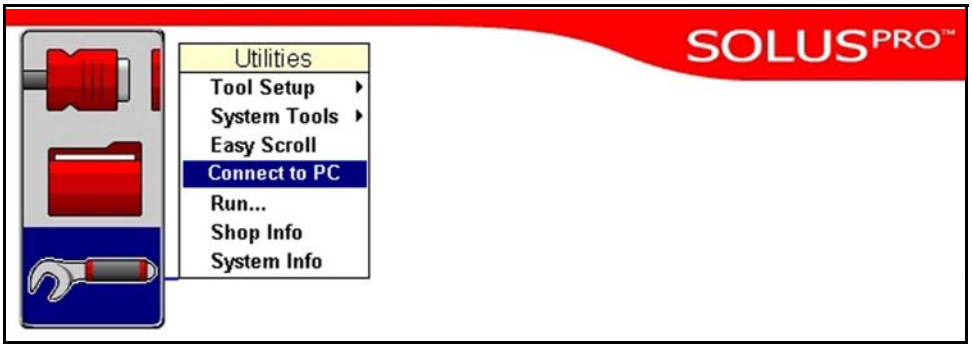


Figure 4-27 *SOLUS PRO utilities menu*

3. Press **Y** to select and a configuring for Connect to PC message displays.
4. Press **Y** to turn off the SOLUS PRO Diagnostic Tool.
5. Press the **Power** button to turn on the SOLUS PRO Diagnostic Tool.

   A Connect to PC mode message displays (Figure 4-28).

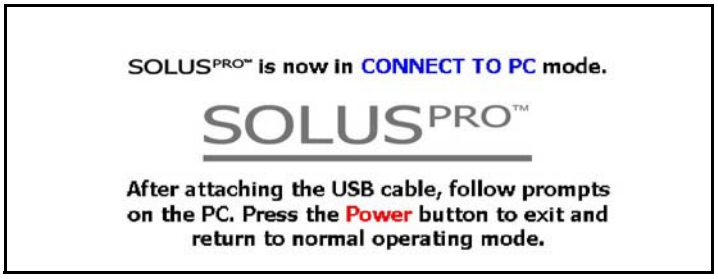

SOLUS PRO™ is now in CONNECT TO PC mode.
SOLUS PRO™
After attaching the USB cable, follow prompts on the PC. Press the Power button to exit and return to normal operating mode.

Figure 4-28 *SOLUS PRO in Connect to PC mode message*

6. Connect the USB cable between the SOLUS PRO and your PC:
   a. The type A connector cable end attaches to a USB port on the PC.
   b. The type mini A connector cable end attaches to the USB port on top of the SOLUS PRO.
7. If a “removable disk” dialog automatically opens on your PC, select **Cancel**.
8. Launch ShopStream Connect (see "Starting the Software" on page 10).
   ShopStream Connect should default to display the data stored on your SOLUS PRO Diagnostic Tool. If not, select **SOLUS PRO** from the end of the file directory list.

4.3.9 SOLUS Ultra

To establish communication with your SOLUS Ultra Diagnostic Tool:

1. Press the **Power** button to turn on the SOLUS Ultra Diagnostic Tool.
2. Connect the USB cable between the SOLUS Ultra and your PC:
   a. The type A connector cable end attaches to a USB port on the PC.
   b. The type mini A connector cable end attaches to the USB port on top of the SOLUS Ultra.
3. From the Home screen, select **Tools** > **Connect-to-PC**.
   The screen message shows the Diagnostic Tool is ready to connect to a PC (Figure 4-29).

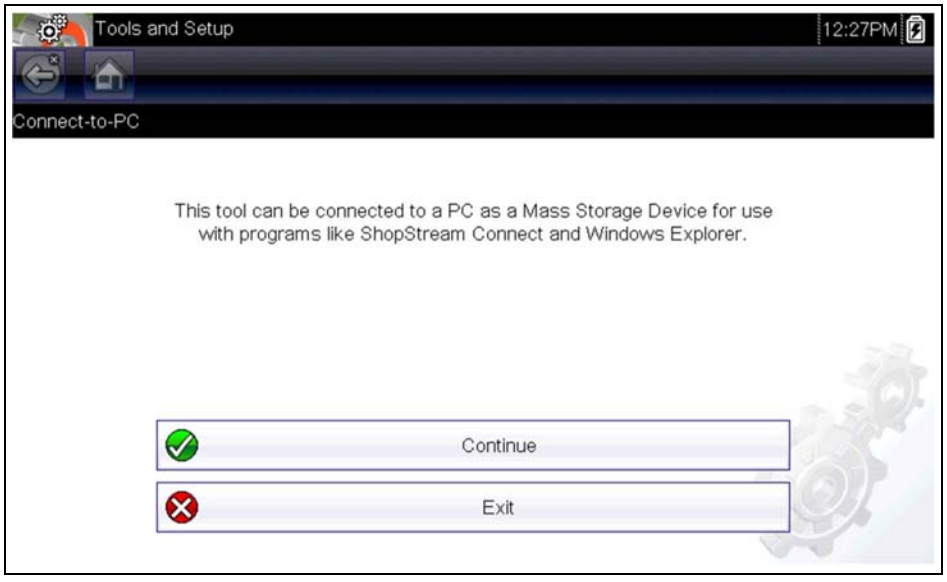

Tools and Setup
12:27PM
Connect-to-PC
This tool can be connected to a PC as a Mass Storage Device for use with programs like ShopStream Connect and Windows Explorer.
Continue
Exit

Figure 4-29 *SOLUS Ultra ready to connect screen*

4. Select **Continue** once the USB cable has been connected.
   A screen message shows the SOLUS Ultra and PC are connected (Figure 4-30).

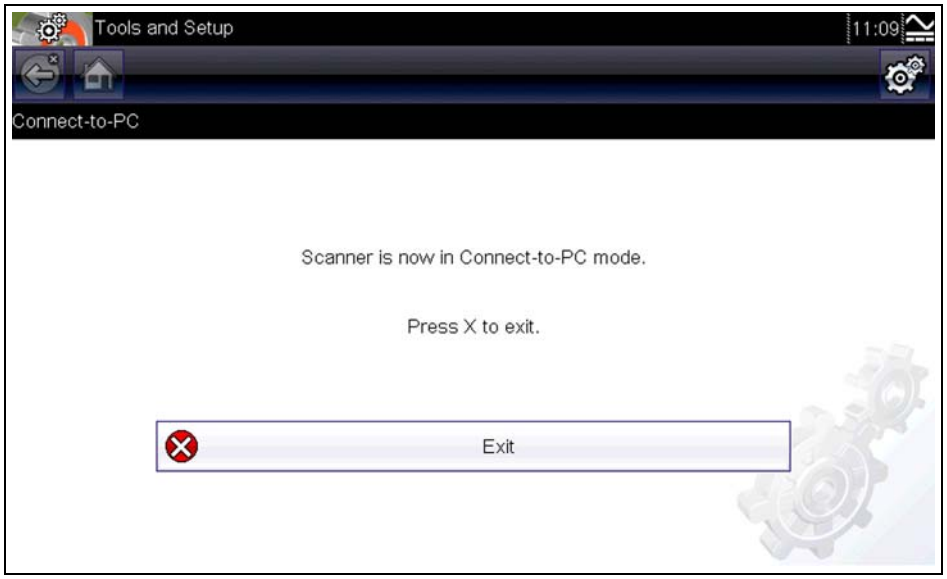


Figure 4-30 *SOLUS Ultra in Connect-to-PC mode message*

5. Launch ShopStream Connect (see "Starting the Software" on page 10).

   ShopStream Connect should default to display the data stored on your SOLUS Ultra Diagnostic Tool. If not, select **SOLUS Ultra** from the end of the file directory list.

4.3.10 Vantage PRO

To establish communication with your Vantage PRO Diagnostic Tool:

1. Press the **Power** button to turn on the Vantage PRO Diagnostic Tool.
2. From the Main Menu, navigate to **UTILITIES > Connect to PC** (Figure 4-31).

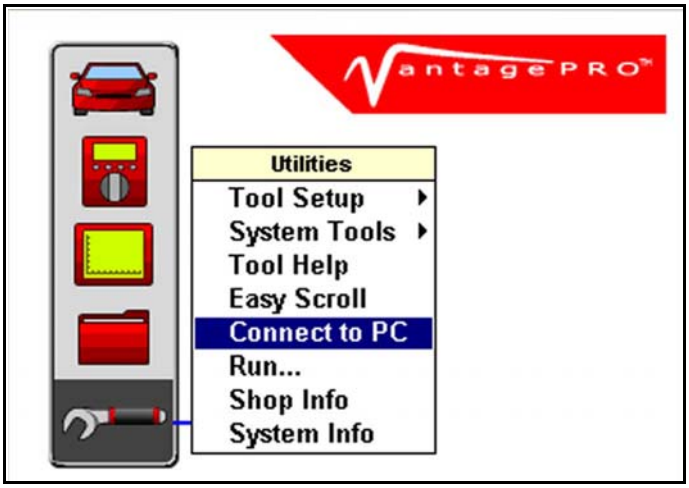


Figure 4-31 *Vantage PRO utilities menu*

3. Press **Y,** then a configuring for Connect to PC message displays.
4. Press **Y** to turn off the Vantage PRO Diagnostic Tool.
5. Press the **Power** button to turn on the Vantage PRO Diagnostic Tool and a Connect to PC mode message displays (Figure 4-32).

Vantage PRO™ is now in CONNECT TO PC mode.
Vantage PRO™
After attaching the USB cable, follow prompts on the PC. Press the Power button to exit and return to normal operating mode.

Figure 4-32 *Vantage PRO in Connect to PC mode message*

6. Connect the type A connector of the USB cable to a USB port on the PC, and between the mini A connector end of the cable to the Vantage PRO Diagnostic Tool.
7. If a “removable disk” dialog automatically opens on your PC, select **Cancel**.
8. Launch ShopStream Connect (see "Starting the Software" on page 10).

   ShopStream Connect should default to display the data stored on your Vantage PRO. If not, select **Vantage PRO** from the end of the file directory list.

4.3.11 Vantage Ultra

To establish communication with your Vantage Ultra Diagnostic Tool:

1. Press the **Power** button to turn on the Vantage Ultra Diagnostic Tool.
2. Connect the USB cable between the Vantage Ultra and your PC:
   a. The type A connector cable end attaches to a USB port on the PC.
   b. The type mini A connector cable end attaches to the USB port on top of the Vantage Ultra.
3. From the Home screen, select **Tools** > **Connect-to-PC**.

   The screen message shows the Diagnostic Tool is ready to connect to a PC (Figure 4-33).

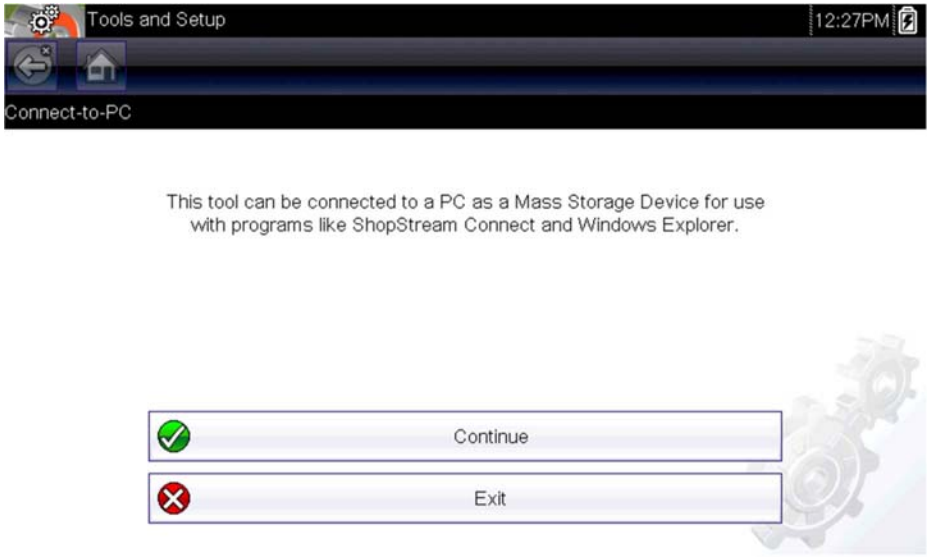

Tools and Setup
12:27PM
Connect-to-PC
This tool can be connected to a PC as a Mass Storage Device for use with programs like ShopStream Connect and Windows Explorer.
Continue
Exit

Figure 4-33 *Vantage Ultra ready to connect screen*

4. Select **Continue** once the USB cable has been connected.
   A screen message shows the Vantage Ultra and PC are connected (Figure 4-34)

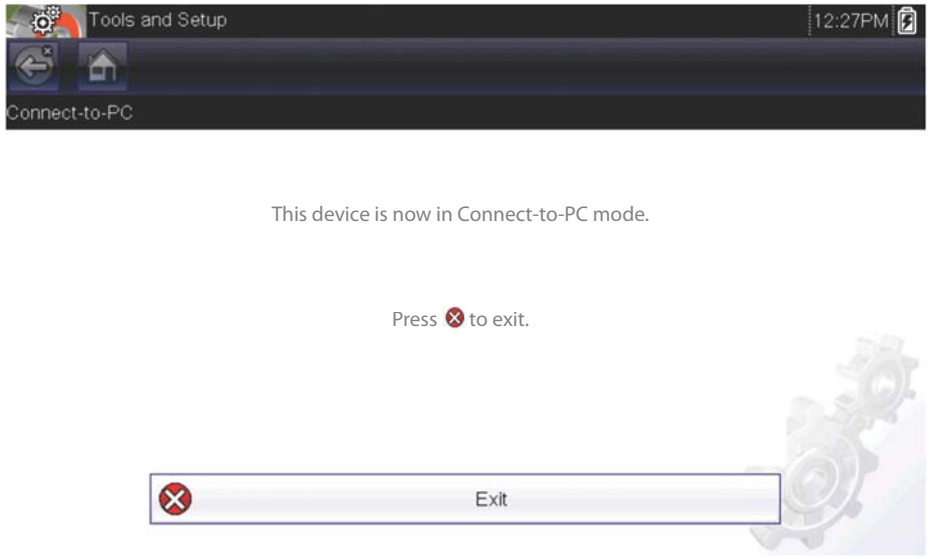


Figure 4-34 *Vantage Ultra in Connect-to-PC mode message*

5. Launch ShopStream Connect (see "Starting the Software" on page 10).
   ShopStream Connect should default to display the data stored on your Vantage Ultra Diagnostic Tool. If not, select **Vantage Ultra** from the end of the file directory list.

4.4 Terminating Communication

To terminate communication between your Diagnostic Tool and PC:

1. From the Diagnostic Tool, select **Exit** from the Connect-to-PC mode screen to terminate communication (Figure 4-35).

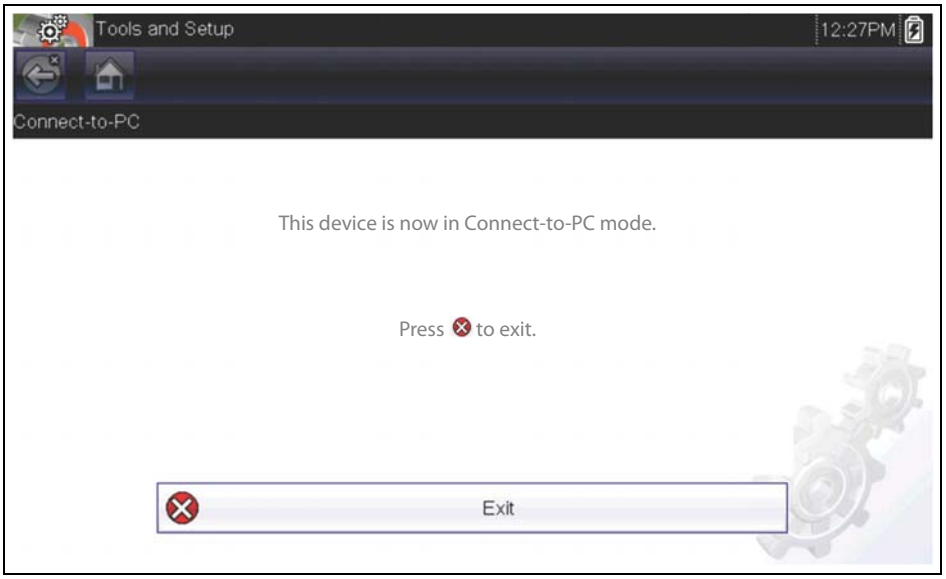


Figure 4-35 *Typical - Exit selection*

2. Disconnect the USB cable from the Diagnostic Tool.

4.5 Exiting the Software

To exit the ShopStream Connect software:

1. Select **Exit** from the dropdown menu (Figure 4-36).

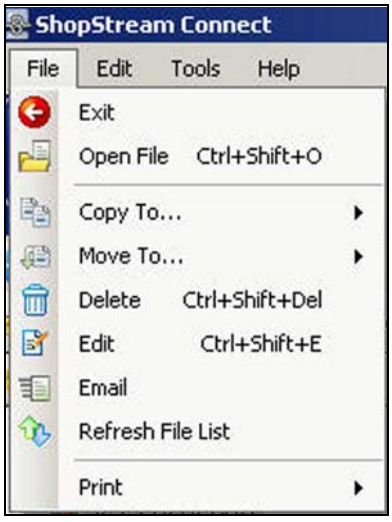


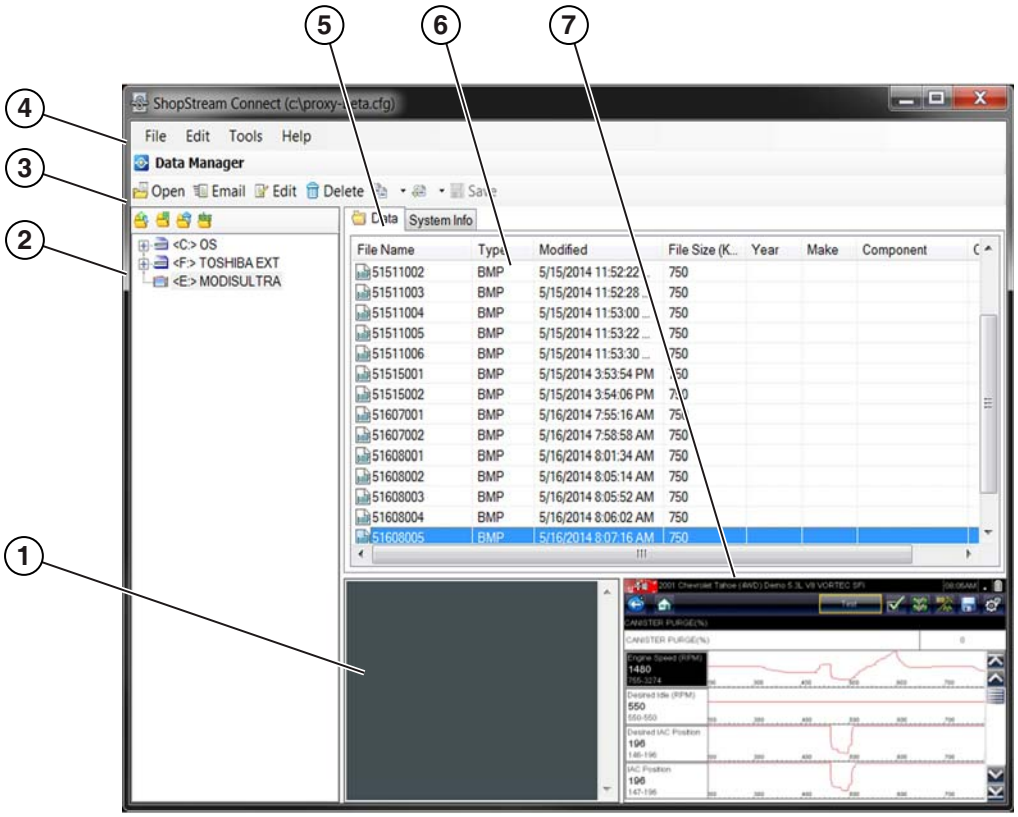
Figure 4-36 *Exit selection*

2. Disconnect the USB cable from your PC.

Chapter 5 Basic Navigation and Operation

5.1 Main Screen Layout

The following explains the screen layout for ShopStream Connect™ software.



1— Notes Window—allows you add notes to select data files. Select **Save** from the menu bar to save your notes. *NOTE: Not all file types allow notes, the Notes window will be grayed out when a file type that does not support notes is highlighted. Some image files may display notes for reference purposes (the notes are grayed out and not editable).*

2— File directory structure—displays the file directory structure of your PC in standard Windows format, and shows any connected Diagnostic Tools at the bottom of the data list.

3— Data Manager Toolbar—provides control icons that perform a variety of operations on data files.

4— Main Menu bar—contains File, Edit, Tools, and Help menus.

5— Tabs—provides access to data files and presets stored on the Diagnostic Tool or on the PC, and also allows viewing of software revision details of the Diagnostic Tool.

6— Main display—shows stored data files details. *NOTE: The files listed are sortable (ascending/descending) by clicking on the column tab at the top (e.g. File Name, Type, etc.) Sort preferences are saved when the ShopStream Connect program is closed.*

7— Preview—displays a sample of the file if the selected file is a image file.

Figure 5-1 *ShopStream Connect screen layout*

5.2 Main Menu Bar

The Main Menu Bar includes the following menu options:

- **File**
- **Edit**
- **Tools**
- **Help**

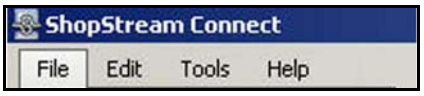


Figure 5-2 *Main menu bar*

5.2.1 File Menu

The following functions are available from the **File** menu:

- **Exit**—Closes the ShopStream Connect software.
- **Open File**—This function is used to open data files for viewing. The ShopStream Connect software lets you view data files stored on both the computer and the Diagnostic Tool. This operation is also available with a right-click of the mouse.
- **Copy to...**—This function creates a duplicate of the selected files at the other location (PC if the file is on the Diagnostic Tool or Diagnostic Tool if the file is on the PC). This operation is also available with a right-click of the mouse.
- **Move to...**—This function moves selected files to another location (to the PC from the Diagnostic Tool, or to the Diagnostic Tool from the PC). This operation is also available with a right-click of the mouse.
- **Delete**—This function erases the selected files. This operation is also available with a right-click of the mouse.
- **Edit**—This function changes the name of file selection. This operation is also available with a right-click of the mouse.
- **Email**—This function starts an E-mail message with a copy of file selections attached. This operation is also available with a right-click of the mouse.
- **Refresh File List**—Resamples and cleans up the display screen.
- **Print**—Sends the current screen to a printer.

5.2.2 Edit Menu

The **Edit** menu functions, follow Windows operational standards.

The following functions are available from the **Edit** menu:

- **Cut File(s)**—Removes the selected text or file and places it on the clipboard.
- **Copy File(s)**—Copies the selected text or file on the clipboard.
- **Paste File(s)**—Inserts the contents of the clipboard at the current location.

5.2.3 Tools Menu

The Tools menu includes the following options:

- **Update Software**
- **Options**

Update Software

This function allows you to download updates and upgrades for your Diagnostic Tools and ShopStream Connect software. See “Updating and Upgrading Software” on page 63.

Options

This function allows you to enter shop information to be added to printed files and to change the location of the saved data files on the PC. Selecting **Options** opens a submenu that offers the following:

- **Autostart**—automatically launches ShopStream Connect whenever a Diagnostic Tool in Connect-to-PC mode is connected to the computer.
- **Edit Shop Info**—allows you to add your shop name and information to printed files.
- **Change ShopStream Data Folder Path**—allows you to select a different target destination for the Diagnostic Tools folder on your PC.

Autostart

ShopStream Connect automatically launches if a Diagnostic Tool is in Connect-to-PC mode, or the CF card from a MODIS, SOLUS, or Vantage PRO, is recognized by your PC when Autostart is active. This feature can be switched off and on by selecting it from the options submenu. A check mark alongside the name indicates Autostart is active.

Edit Shop Info

Selecting **Edit Shop Info** opens a dialog box that allows you to enter the name address, and phone number for your shop, which can be included as a header on printed files. The date and time are automatically placed on the top line, and messages of up to three lines can also be added below the shop information. A preview panel at the bottom of the box shows how the information will appear on a print out (Figure 5-3).

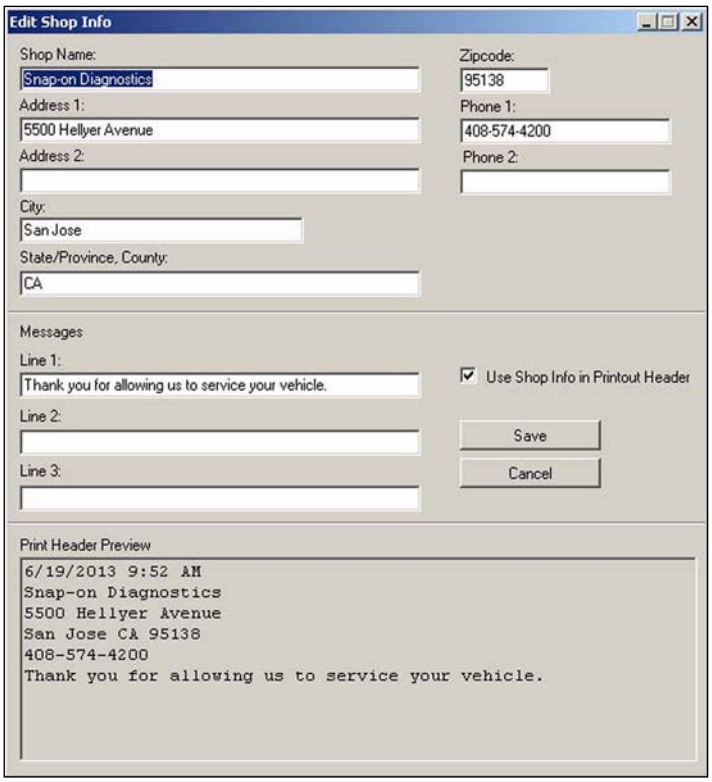


Figure 5-3 *Edit Shop Info dialog box*

Check the "**Use Shop Info in Printout Header**" box to automatically include the header on printed files. Select **Edit Shop Info** from the Options submenu to modify or add messages before printing.

Change ShopStream Data Folder Path

When a diagnostic tool is connected to your PC using ShopStream Connect, a Diagnostic Tool folder is created on your PC named after the connected platform (e.g. ETHOS+, SOLUS, MODIS Ultra, etc). This folder allows you to store and transfer files.

The Change ShopStream Data Folder Path option allows you to select a different target destination for saving Scanner files to on your PC. Selecting opens a dialog box that allows you to browse the menu structure on your computer (Figure 5-4). Follow the onscreen instructions to create or rename your new “target destination” folder and/or location.

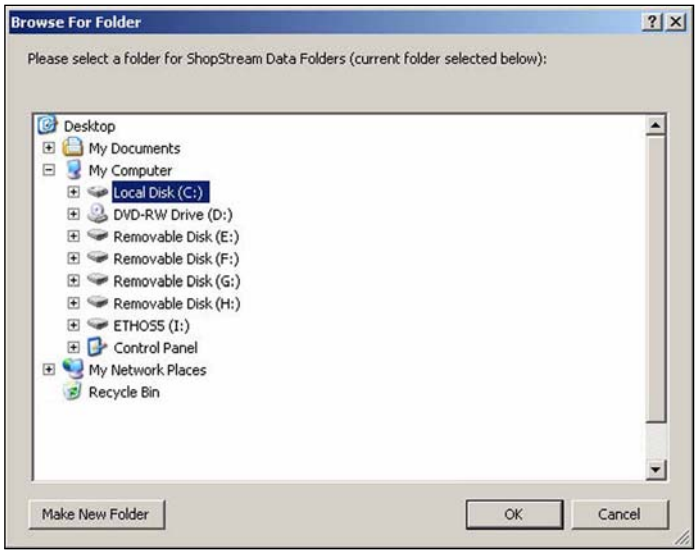


Figure 5-4

Highlight the desired destination folder for your saved files, then select **OK**. Selecting **Make New Folder** adds a new destination folder within the currently highlighted folder.

5.2.4 Help Menu

The Help menu includes useful information and links to help you get acquainted with and learn how to use ShopStream Connect.

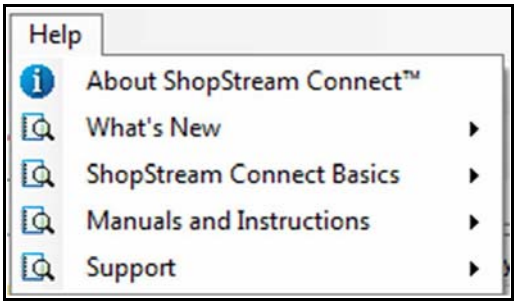


Figure 5-5 *Help menu*

About ShopStream Connect - Displays ShopStream Connect software version information.

Whats New - Opens a submenu of links to learn about new platform information, accessories and the Subscription Manager Feature.

- ShopStream Connect Subscription Manager Feature (*User Manual Link*).
- What's New in Platform Coverage (*Webpage Link)*.
- Optional Platform Accessories (*Webpage Link*).

ShopStream Connect Basics - opens quick links to the following topics in the *User Manual.*

- How to transfer files from Diagnostic Tool to PC.
- How to view files.
- How to download and install a software service release using Update Manager.
- How to download and install a software upgrade using Subscription Manager.

Manuals and Instructions - opens quick links to the *User Manual* and Installation Instructions.

- ShopStream Connect Installation Instructions (*User Manual Link*).
- ShopStream Connect User Manual.

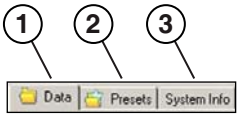
Support - opens quick links found on the Snap-on Diagnostic webpage.

- ShopStream Connect FAQ's - lists Frequently Asked Questions about ShopStream Connect.
- ShopStream Connect User Forum - connect with other ShopStream Connect users to ask questions and find answers to your questions.
- Customer Support - lists customer support contact information.

5.3 Data Manager Screen Controls and Icons

5.3.1 Display Tabs

Tabs positioned at the top of the ShopStream Connect main display control the visible file information. The active tab is highlighted.



1— Data—displays a list of the data files on the Diagnostic Tool or stored on the PC.

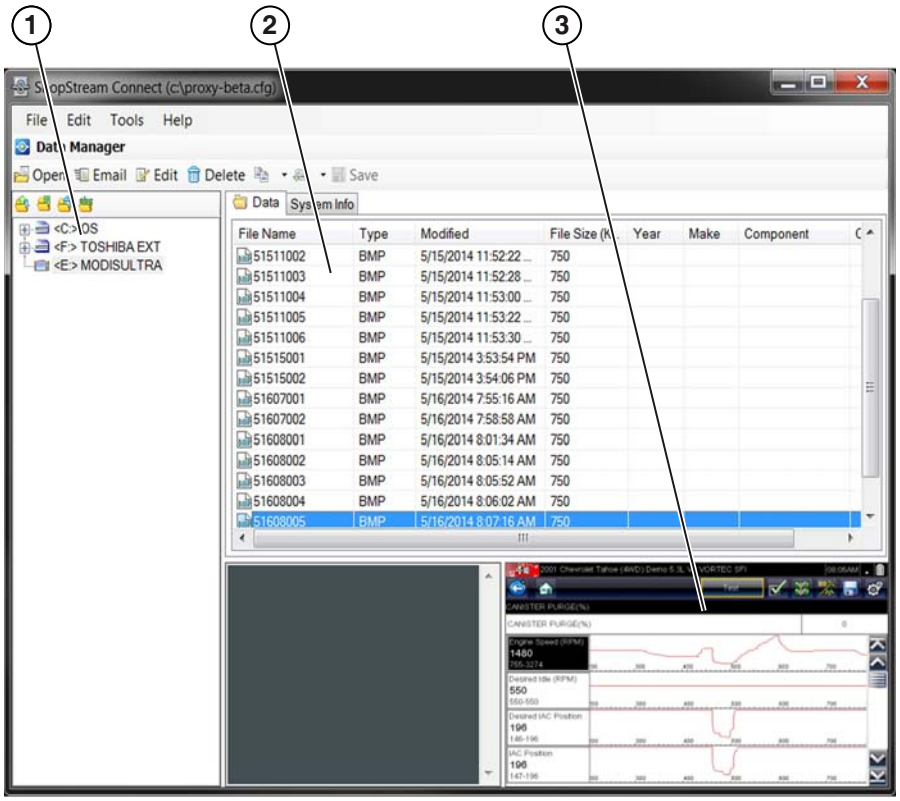
2— Presets—displays a list of the preset files stored in the Diagnostic Tool or PC memory. This tab only displays when connected to a Diagnostic Tool that has presets, such as MODIS or Vantage PRO.

3— System Info—displays the serial number and version number of the connected Diagnostic Tool.

Figure 5-6 *Tabs*

Data Tab

A typical ShopStream Connect data screen is shown below:



1— File directory structure—shows the file directory structure in Windows format.

2— Main display—shows a list of Diagnostic Tool data stored in the directory selected in the file structure frame.

3— Preview—shows a sample of the selected image file.

Figure 5-7 *Data screen*

System Info Tab

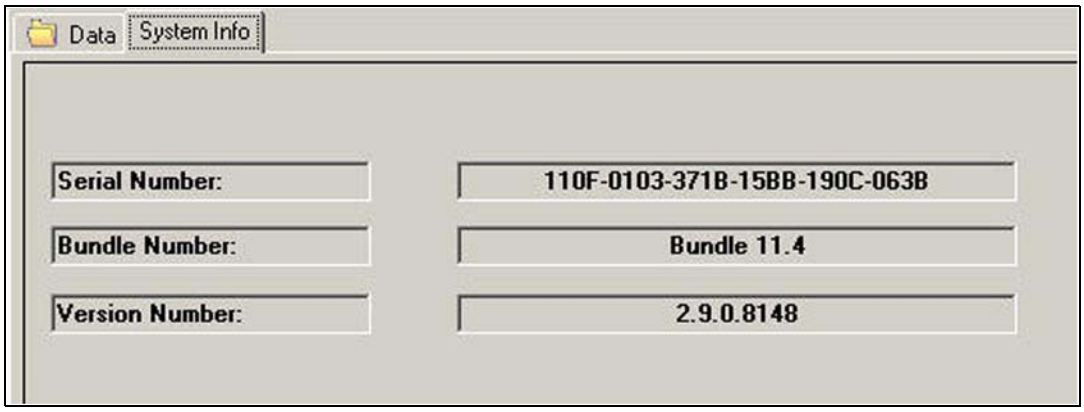


Figure 5-8 *System Info Tab*

NOTE:
The System information tab is only displayed when a Diagnostic Tool is connected and communicating with the PC. To view the tab, select (highlight) the Diagnostic Tool (drive) from the file directory structure list as shown in (Figure 5-7).

The System information screen displays details about the currently installed software in the display area of the screen. System information includes:

- **Serial Number**—used to uniquely identify your Diagnostic Tool.
- **Bundle Number**—used to identify the software release date.
- **Version Number**—used to identify the specific software version.

5.3.2 Keyboard and Mouse Controls

The ShopStream Connect software supports the use of either a mouse or computer keyboard.

Using the Keyboard

- Use the **left keyboard arrow** to:
  - Move the highlight to the next available control to the left
- Use the **right arrow key** to:
  - Move the highlight to the next available control to the right
- Use the **up arrow key** to:
  - Move the highlight up in a drop-down menu
  - Move the highlight from the lower toolbar to the upper toolbar
- Use the **down arrow key** to:
  - Move the highlight down in a drop-down menu
- Use the **Enter** key to:
  - Select a highlighted toolbar control
  - Accept a selection from a drop-down menu
  - Activate a highlighted control
- Use the **Esc** key to:
  - Exit a function
  - Close a drop-down menu without changing the selection
  - Release a control

Using the Mouse

- Use the **left mouse button** to:
  - Select a toolbar control
  - Select an item from a drop-down menu
  - Operate the on-screen arrow keys
- Use the **right mouse button** to:
  - Open the context sensitive menu

Using Drag and Drop

Files stored on the computer may be moved in the file directory structure frame by using Windows-standard drag-and-drop functionality. ShopStream Connect creates individual “Files” folders for each Diagnostic Tool (e.g. ETHOS, MODIS, MODIS Ultra, SOLUS, SOLUS PRO, Vantage PRO) when the software installs. Drag and drop files from the list to a folder.

5.3.3 Data Manager Toolbar Icons

This section explains toolbar icon operations, refer to “Main Screen Layout” on page 27.

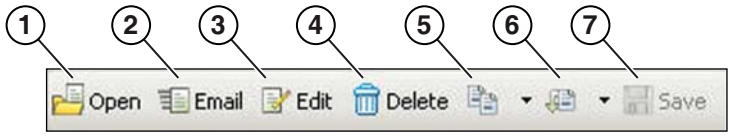


Figure 5-9

The following icons are used in the toolbar:

1		**Open**	Opens the highlighted file.
2		**E-mail**	Opens the E-mail window and automatically attaches any currently selected files to the E-mail. This function requires a functioning e-mail connection to be installed on the computer.
3		**Edit**	Allows editing of the data file name, vehicle year, make, component, and condition.
4		**Delete**	Erases the selected files from Diagnostic Tool or PC memory.
5		**Copy To**	Copies data and preset files between the computer and the Diagnostic Tool internal memory.
6		**Move To**	Transfers data and preset files between the computer and the Diagnostic Tool internal memory.
7		**Save**	Saves the open file. This function is only available after a file has changed.

Open

The ShopStream Connect software lets you to use your computer to view data files stored on both the computer and the Diagnostic Tool.

To view a file:

1. Select the **Data** tab.
2. Highlight the file that you wish to view.
3. Select **Open** from the toolbar.

   The selected file displays on the computer screen (Figure 5-10).

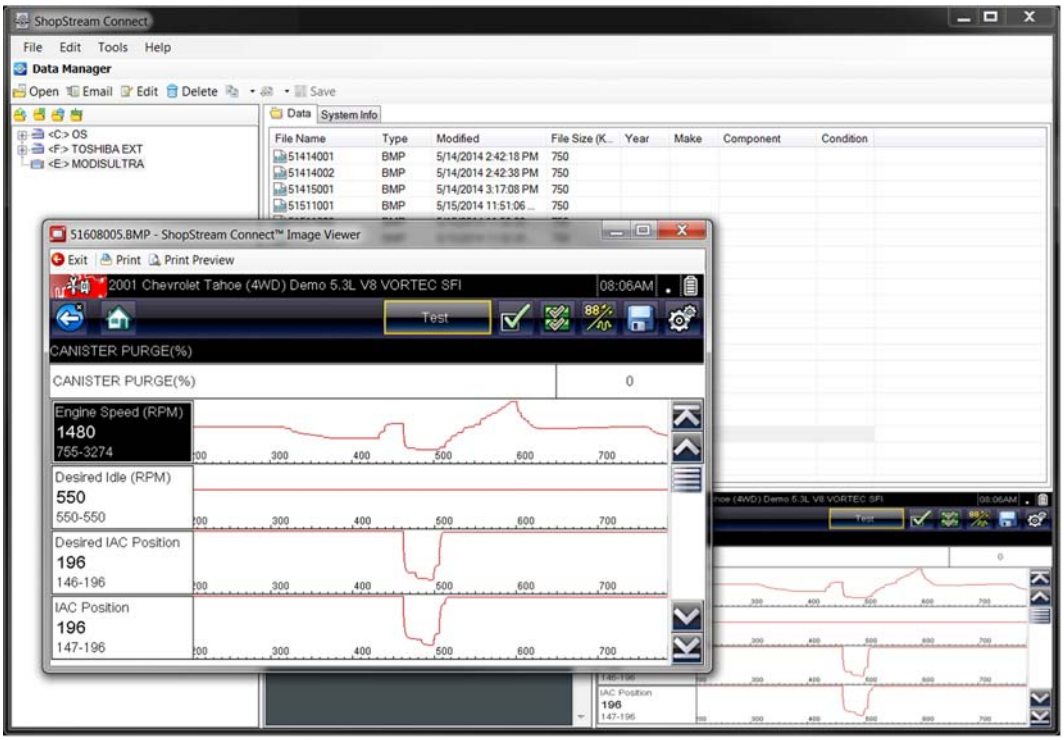

ShopStream Connect
File Edit Tools Help
Data Manager
Open Email Edit Delete Save
Data System Info
File Name Type Modified File Size (K... Year Make Component Condition
51414001 BMP 5/14/2014 2:42:18 PM 750
51414002 BMP 5/14/2014 2:42:38 PM 750
51415001 BMP 5/14/2014 3:17:08 PM 750
51511001 BMP 5/15/2014 11:51:06 ... 750
51608005.BMP - ShopStream Connect™ Image Viewer
Exit Print Print Preview
2001 Chevrolet Tahoe (4WD) Demo 5.3L V8 VORTEC SFI
08:06AM
Test
CANISTER PURGE(%)
CANISTER PURGE(%) 0
Engine Speed (RPM) 1480 755-3274
Desired Idle (RPM) 550 550-550
Desired IAC Position 196 146-196
IAC Position 196 147-196

Figure 5-10 *BMP file display*

NOTE:
You can also open a file by selecting **File > Open File** from the File menu or by double-clicking the selected file name.

E-mail

This function sends a copy of selected files from your PC or Diagnostic Tool via E-mail.

NOTE:
The E-mail option uses the default E-mail program installed on your computer. If your computer is not configured for E-mail, this option will not work.

To use the E-mail function:

1. Select the **Data** tab.
   A list of available files displays.
2. From the on-screen list, highlight the file you wish to send.
3. From the toolbar, select **E-mail**.
   The New Message window opens with the selected file(s) in the “Attach” field (Figure 5-11).

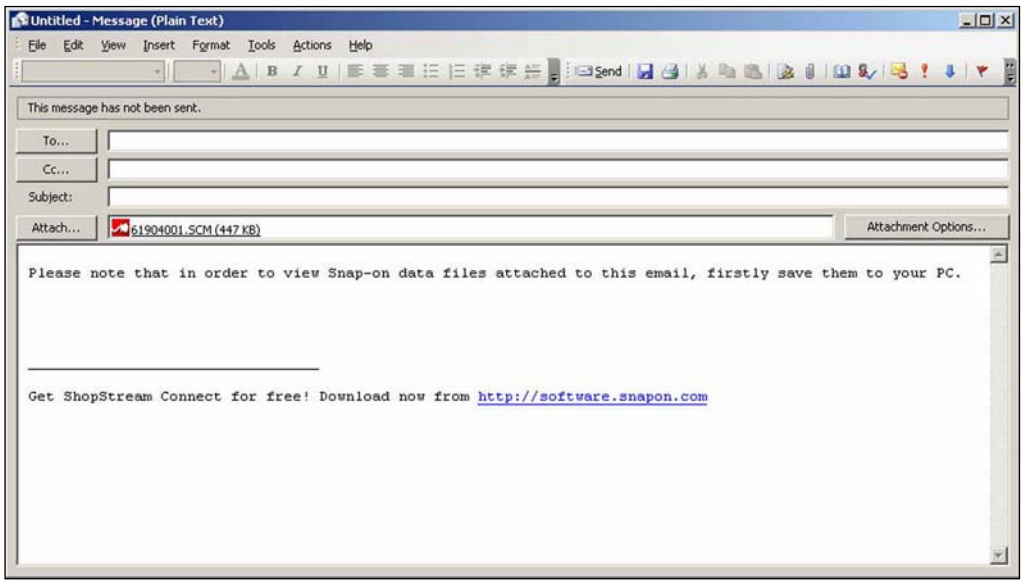

Untitled - Message (Plain Text)
File Edit View Insert Format Tools Actions Help
Send
This message has not been sent.
To...
Cc...
Subject:
Attach...
61904001.SCM (447 KB)
Attachment Options...
Please note that in order to view Snap-on data files attached to this email, firstly save them to your PC.
Get ShopStream Connect for free! Download now from http://software.snapon.com

Figure 5-11 *E-mail window*

4. Enter the E-mail address, of the recipient, the subject of the message, and message text.
5. From the New Message window toolbar, select **Send**.

Edit

Edit lets you quickly change the name of an image file, or add vehicle information and rename a data file.

To edit a file:

1. Select the **Data** tab.
2. With the file that you wish to edit highlighted, select **Edit** from the toolbar.
   The Edit File Information window opens (Figure 5-12).

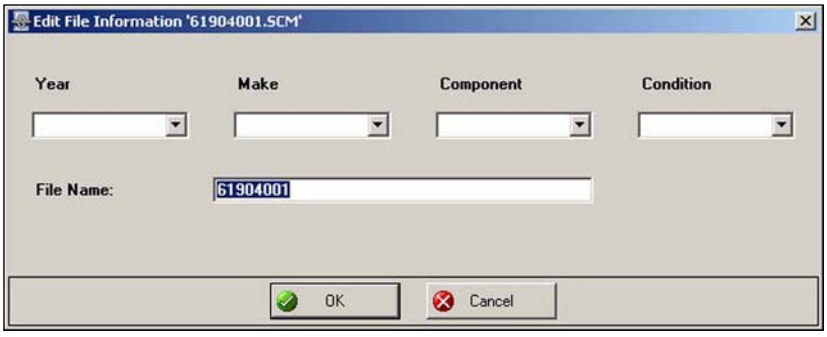


Figure 5-12 *Edit File Information window*

3. For a data file, either use the dropdown menus to select the year, make, component, and condition, or type in the information.
4. Type in the new name for the file.

NOTE:
File Name is the only field in the window when an image file is selected for editing.

5. Select **OK** to close the window.

Delete

Files stored on the computer are typically sent to the recycle bin on your PC but vary depending on your Windows settings. Files stored in Diagnostic Tool memory are always permanently deleted.

To delete a file:

1. Select the **Data** tab.
2. Highlight the file that you wish to delete.
3. Select **Delete** from the toolbar.
4. A confirmation screen displays:
   a. Select **Yes** to permanently erase the file.
   b. Select **No** to cancel.

Copy To

The **Copy To** function creates a duplicate of the selected file or files on either the PC or the Diagnostic Tool. Depending on where the original files reside, the duplicates copy to the other device. Select **Copy To** and a dropdown menu displays to show where the file will be copied to. The original files are still available in the original location.

Move To

Use the **Move To** function to interchange files between the Diagnostic Tool and your PC.

To move a file between Diagnostic Tool memory to the computer:

1. Select the **Data** tab.
   A list of files stored in memory displays.
2. From the list, select the file or files that you want to move.
3. Select **Move To**.
   A dropdown menu of available folders displays.
4. Select the folder that you want the files to move to.
   The selected files move to the folder.

Save

Saves the open file. This function is only available after a file has changed.

Chapter 6 Transferring Files

6.1 File Transfer Basics

ShopStream Connect uses a basic Windows interface and familiar copy, paste, move and drag and drop controls to allow you to transfer files bi-directionally between your Diagnostic Tool and your PC.

To transfer files bi-directionally between your Diagnostic Tool and your PC, the following basic procedures must be performed:

- Start the ShopStream Connect application, see “Starting the Software” on page 10
- Connect the Diagnostic Tool, see “Connecting a Diagnostic Tool to a PC” on page 11
- Establish Communication between the PC and the Diagnostic Tool, see “Establishing Communication” on page 14

6.1.1 Folder and Files

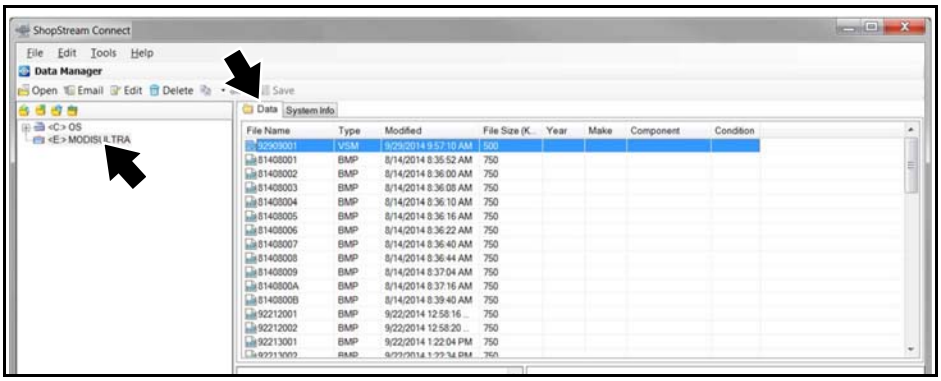
When a diagnostic tool is connected to your PC using ShopStream Connect, a Diagnostic Tool folder is created on your PC named after the platform (e.g. ETHOS+, Vantage PRO, MODIS Ultra, etc). This folder allows you to store and transfer files.

The location of the Diagnostic Tool “target destination” folders on your PC is defined during the installation of ShopStream Connect. The “target destination” folder names and location can be changed at anytime by choosing (from main menu) **Tools > Options > Change ShopStream Data Path**. Follow the onscreen instructions to create or rename your new “target destination” folder and/or location. See “Change ShopStream Data Folder Path” on page 31 for additional information.

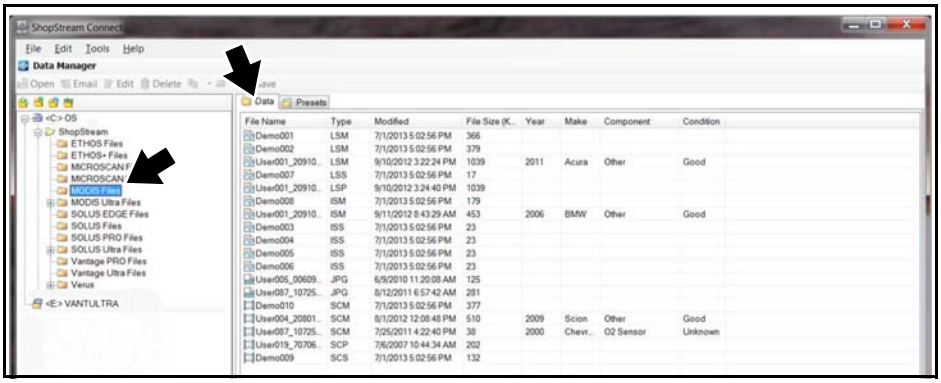
6.1.2 Displaying Files

From the ShopStream Connect Main Screen, you can display the File Directory Structure (left side) which shows folders on your PC and the Diagnostic Tool (if connected to PC). The Data tab on the Main Display, displays only ShopStream Connect compatible files within the folders.

- To display data files on your Diagnostic Tool, select your Diagnostic Tool from the File Directory Structure window (e.g. <E> MODISULTRA) and files stored on the Diagnostic Tool are displayed in the Data tab on the Main Display window.



- To display data files on your PC, select your “target destination” folder from the File Directory Structure window (e.g. <C> ShopStream \ MODIS Files) and the files stored on your PC are displayed in the Data tab on the Main Display window. See “Data Manager Screen Controls and Icons” on page 32 for additional information.



NOTE:
If the optional “Autostart” control is activated, whenever you connect your Diagnostic Tool (or memory card) to your PC, the ShopStream Connect software on your PC will automatically recognize your Diagnostic Tool and open the ShopStream Connect interface. The “Autostart” feature can be turned on or off by selecting or deselecting it from the options submenu **Tools > Options > Autostart**. A check mark alongside “Autostart” indicates the feature is active, see “Autostart” on page 29 .

From the ShopStream Connect Main Screen, you can also transfer files bi-directionally between your Diagnostic Tool and your PC using the following methods:

6.1.3 Copying Files

The “Copy To” and “Copy Files” functions create a duplicate of the selected file or files on either the PC or the Diagnostic Tool. These controls are available from the Main Menu Bar, Data Manager Toolbar or by selecting the file and right clicking and choosing from the dropdown menu. See “Copy To” on page 38 for additional information.

6.1.4 Moving Files

The “Move To” function moves the selected file or files to either the PC or the Diagnostic Tool. These controls are available from the Data Manager Toolbar or by selecting the file and right clicking and choosing from the dropdown menu. See “Move To” on page 38 for additional information.

Files can also be moved by selecting the file and using the Windows-standard drag-and-drop functionality. Simply select the file (left click mouse button and hold) and drag the file to the desired location in the File Structure Directory and drop it (release left mouse button).

6.1.5 Alternate Method

Files and folders can also be moved, copied and renamed using the standard Windows Explorer interface. Select files and folders from within Windows Explorer and move, copy, delete or rename using the standard Windows controls.

Chapter 7 Viewing Files

Data and image files can be viewed using the Data Manager Viewers. There are three Viewers that open the various data and image file extensions saved on Diagnostic Tools.

NOTE:
File extension types vary depending on the Diagnostic Tool. Not all the file extensions described here may be available on your Diagnostic Tool.

- **Scanner DataViewer** - Opens files with the following extensions:
  - .pids - ShopStream Scanner “movie”
  - .scm - Scanner “movie”
  - .scp - Scanner Snapshot
  - .scs - Scanner Screen Snapshot
  - .spm - ETHOS Scanner “movie”
  - .Icm - Microscan Scanner “movie”
- **Scope Viewer** - Opens files with the following extensions:
  - .ism - Ignition Scope “movie”
  - .isp - Ignition Scope Snapshot
  - .lsm - Lab Scope “movie”
  - .lsp - Lab Scope Snapshot
  - .lss - Lab Scope Screen Snapshot
  - .mmm - Multimeter “movie”
  - .mmp - Multimeter snapshot
  - .mms - Multimeter Screen Snapshot
  - .vsm - Verus Scope “movie”
  - .vss - Verus Scope Screen Snapshot
- **Image Viewer** - Opens files with the following extensions:
  - .bmp - Screen Snapshot (bitmap image file)
  - .jpg - Screen Snapshot (JPEG image file)
  - .sps - Scanner Screen Snapshot
- **Scanner Code Viewer** - Opens files with the following extensions:
  - .xml - Scanner Code Files

7.1 Scanner DataViewer

Your ShopStream Connect software allows you to view data files recorded with your Diagnostic Tool on you PC. When a Scanner data file is selected, it opens and displays in the Scanner DataViewer (Figure 7-1). Scanner DataViewer allows you to custom configure the displayed data in a number of ways, and also provides a number of navigation options.

Scanner DataViewer - Opens .pids, .scm, .scs, .scp,.spm, and .lcm file extensions

1— Menu bar
2— Display toolbar
3— Graph display
4— Properties icon
5— Vertical Scroll bar
6— Zoom controls
7— Slider bar
8— Navigation toolbar
9— Parameter text list
10—Parameter configuration tabs

Figure 7-1 *Scanner Data Viewer*

7.1.1 Menu Bar

The menu bar at the top of the screen contains the File, View, Tools, and Help menus.

File Menu

The File menu offers the following selections (Figure 7-2):

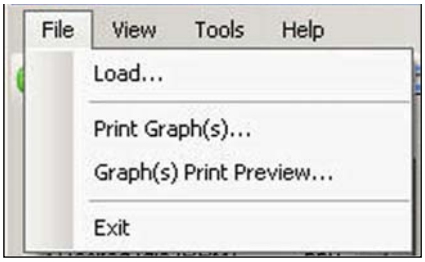


Figure 7-2 *Scanner DataViewer File menu*

- **Load**—locate and open data files, launches a navigation window
- **Print Graph(s)**—print selected graphs
- **Graph(s) Print Preview**—preview graphs before printing
- **Exit**—closes Scanner DataViewer

When Print Graph(s) or Graph(s) Print Preview is selected, a dialog box opens that allows you to choose which graphs to include, how many graphs appear on a page, and the text font (Figure 7-3).

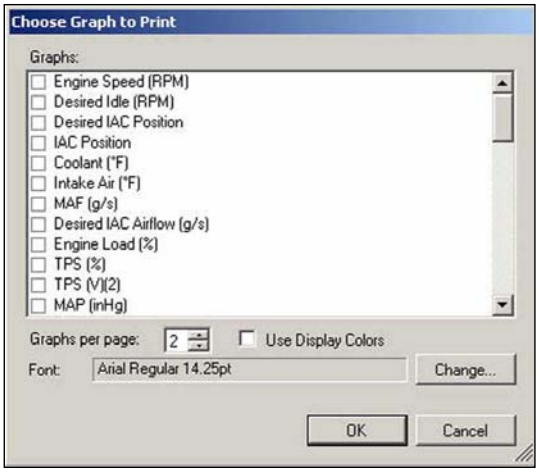


Figure 7-3 *Choose Graphs dialog box*

To print graphs:

1. Select the desired parameters. A checked box indicates the graph will be printed. Select again to deselect the parameter.
2. Select Change to modify the font, this opens a standard Windows font dialog box.
   - a. Modify the font as desired.
   - b. Select **OK** to close the font dialog box.
3. Once all selections are made, select **OK**.

   A print dialog box opens.
4. Select **OK**.
   a. If Print Graph(s) was selected, the file is sent to the printer.
   b. If Graph(s) Print Preview was selected, a preview window opens (Figure 7-4). Select the printer icon to send the file to the printer.

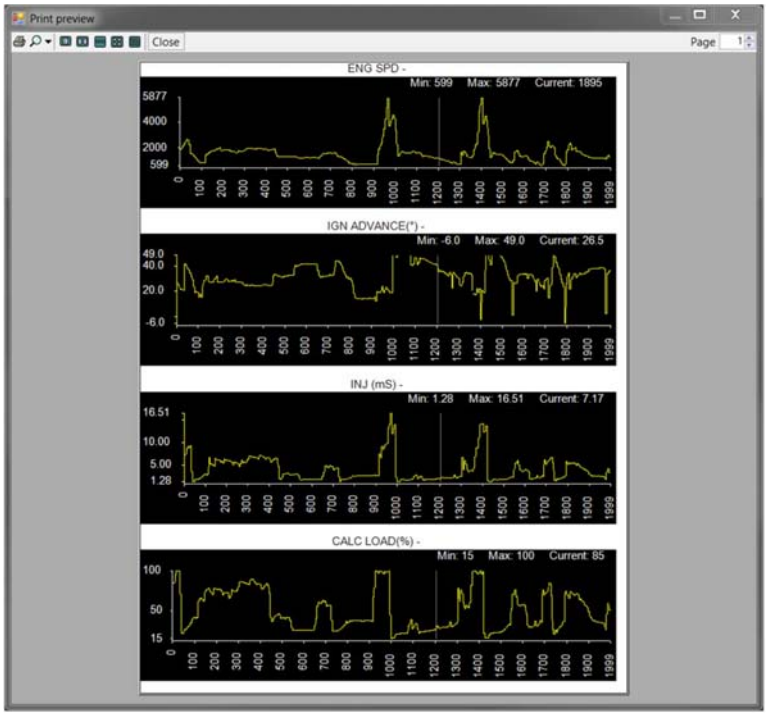


Figure 7-4 *Print preview window*

View Menu

The View menu allows you to change how data is displayed on the screen (Figure 7-5).

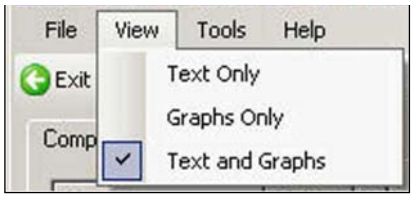


Figure 7-5 *Scanner DataViewer View menu*

Select from the following menu options:

- **Text Only**—shows all parameters and their values as text only
- **Graphs Only**—shows all parameters as graphs only
- **Text and Graphs**—shows all parameters and their values as text in the left panel of the screen, and shows them as graphs in the right panel of the screen

Tools Menu

The Tools menu opens the Properties dialog box.

The Properties dialog box has two sections (Figure 7-6); Shared Graph Properties and Individual Properties. Shared Graph Properties apply to all graphs and Individual Properties apply to the selected graph only.

The Application Theme has two settings. The Default setting displays graphs using a black background and the Printer Friendly setting displays using a white background.

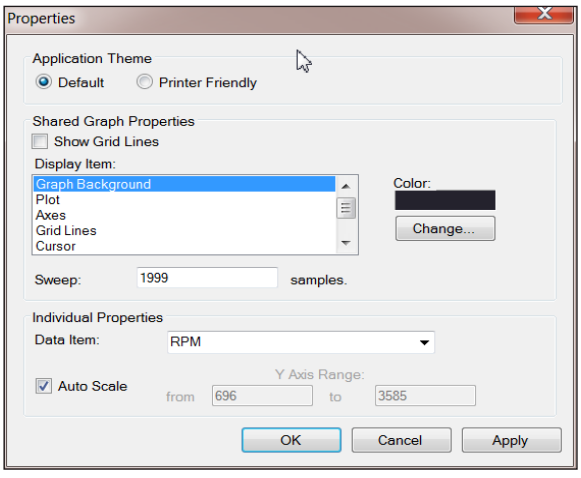


Figure 7-6 *Properties dialog box*

Properties dialog box selections include:

- **Grid Lines**—when selected, a line displays at each major division of the graphs.
- **Display Item**—use to view the display color of the listed items. Highlight an item and the current color appears in the Color box.
- **Change**—use to change the color of the highlighted item, select to open a color palate.
- **Sweep**—use to adjust the number of data frames that appear on the screen (zoom in or out), highlight and type in the desired number.
- **Reset Colors**—use to restore the default color settings.
- **Data Item**—use this pulldown menu to select individual graphs for modification.
- **Auto Scale**—minimum and maximum (Y axis) values automatically adjust to the signal when the box is checked, uncheck the box if you want to custom set the values.
- **Y Axis Range**—use to type desired minimum (from) and maximum (to) values in the selection boxes. This field is only active when Auto Scale is deselected.
- **OK**—applies the changes and closes the properties dialog box.
- **Cancel**—closes the properties dialog box without making changes.
- **Apply**—applies the changes and leaves the properties dialog box open.

NOTE:
*The Properties icon on each graph also opens the Properties dialog box (*Figure 7-6*).*

Help Menu

The Help menu provides Scanner Viewer software version information.

7.1.2 Display Toolbar

The Display toolbar provides the following controls (Figure 7-7).

- **Exit**—closes Scanner DataViewer.
- **Hide PID List**—toggles display between parameter text and graph views.
- **Reset**—returns the listed parameters to the default sort setting (if previously sorted)
- **Display Views (1 to 16)**—determines how many graphs display at a time.
- **Scale**—switches the scale values shown to the left of the graph off and on.
- **Sweep**—switches the sweep values shown below the graph off and on.

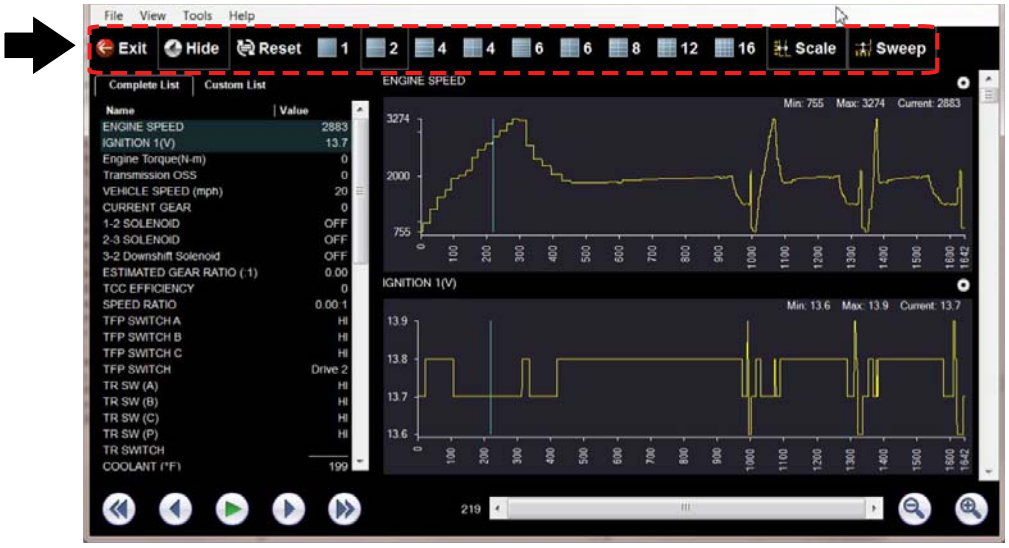
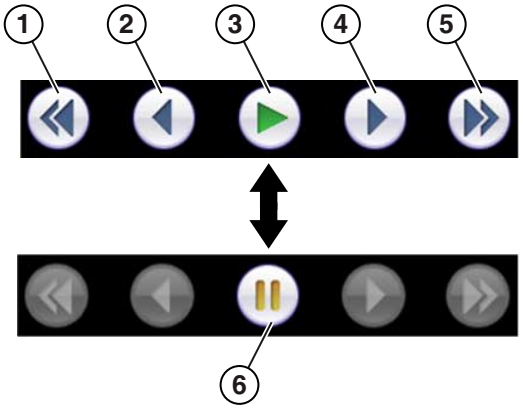


Figure 7-7 *Display toolbar*

7.1.3 Navigation Tools

Playback Controls

The playback controls allow you to navigate through saved data (Figure 7-8).



1— Skip Back—Allows backward movement in multiple steps.
2— Step Back—Allows backward movement in singular steps.
3— Play—Select to play.
4— Step Forward—Allows forward movement in singular steps.
5— Skip Forward—Allows forward movement in multiple steps.
6— Pause—Select to pause playback.

Figure 7-8 *Playback controls*

Zoom Controls

The zoom controls allow you to incrementally increase or decrease the screen magnification (Figure 7-9).

Figure 7-9 *Zoom controls*

Slider / Scroll Bars and Cursor

Use the slider bar to quickly navigate through the data (Figure 7-10). During playback the number displayed on the left side of the slider bar indicates the current position of the cursor in the data file. The cursor can be repositioned during playback or when paused, by selecting and dragging.

Use the scroll bar (right side) to vertically scroll through the parameter list and graphs.

1— Cursor

2— Scroll bar

3— Slider bar

Figure 7-10

7.1.4 Customizing the Display

The parameter text list (left side) displays parameter names and current values.

The display can be customized by selecting and dragging parameters from the text list or graph display to a different location in the text list or in the graph display (Figure 7-11). The highlighted parameters in the text list indicate which parameters are displayed as graphs.

NOTE:
The parameter text list is sortable by name and value. Select Name or Value at the top of the list to change the sorted view. Use the Reset button to reset the list to the default setting.

Figure 7-11

7.1.5 Customizing the Parameter List

The parameter configuration tabs allow you to choose between displaying all available parameters (Complete List), or only those from a (Custom List) (Figure 7-12).

The parameter listed are sortable (ascending/descending) by clicking on the Name and Value tabs at the top of the list.

To customize the parameter list:

1. Select the **Custom List** tab (Figure 7-12).
2. Select **Edit List** in the custom window.

1— Edit List

2— Custom List tab

Figure 7-12

A list of available parameters displays (Figure 7-13).

3. Select the parameters to include in your custom list. Select All and Deselect All controls are also available to assist in the selection process.

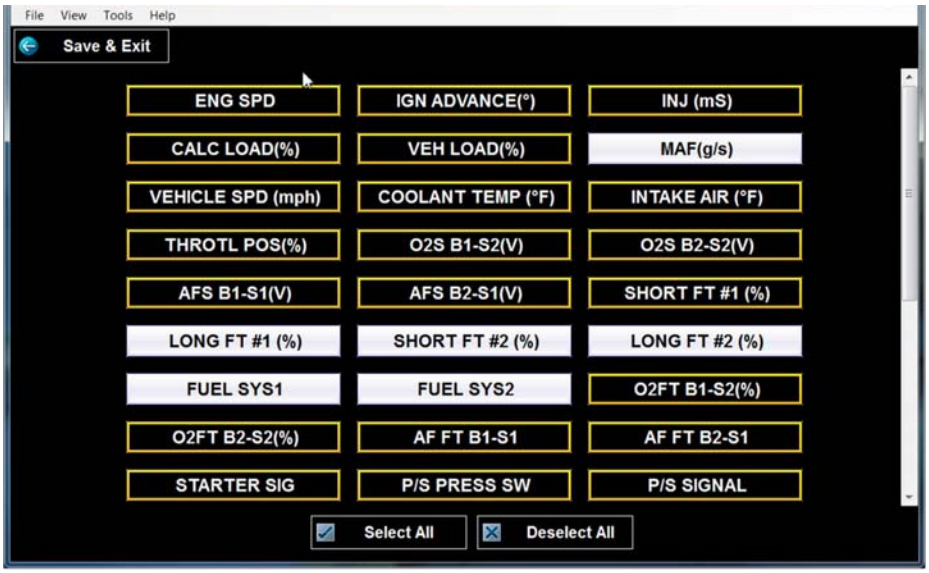


Figure 7-13 *Creating a custom parameter list*

4. Select **Save & Exit** to close the window.

   Only the parameters selected in your custom list are displayed.

7.2 Scope Viewer

Your ShopStream Connect software allows you to print and playback recorded trace signals captured on your Diagnostic Tool. When a scope file is selected, it opens and displays in the Scope Viewer.

Scope Viewer - Opens .ISM, .ISP, .LSM, .LSP, .LSS, .MMM, .MMP, .MMS, .VSM, and .VSS file extensions.

NOTE:
The Scope Viewer is intended to be used to review scope and meter files originally captured on a Diagnostic Tool. Some features (control icons) of the Scope Viewer may not be available "grayed out". This is normal as not all functions are applicable.

The Scope Viewer screen includes the following sections (Figure 7-14):

1— Toolbar - contains control icons
2— Main Body - displays recorded trace results
3— Profile Controls Window - displays profile control icons and trace display settings
4— Playback Control Toolbar - contains playback and display controls

Figure 7-14 *Scope Viewer screen layout*

7.2.1 Toolbar

The Scope Viewer toolbar includes controls to configure display settings and print traces. The following table provides brief descriptions of the toolbar controls:

Table 7-1

Name	Icon	Description
Setup		Opens preferences submenu to setup personal preferences and review captured data settings.
Cursors		Toggles cursor display on/off. Cursors are two vertical rules that can be repositioned on the screen to measure intervals.
Refresh		Not Used - This control is not operational.
File		Opens a dialog box that allows you to select options for saving data.
Print		Opens a dialog box that allows you to configure and print.
Preview		Opens a dialog box that allows you to preview and change page settings before you print.

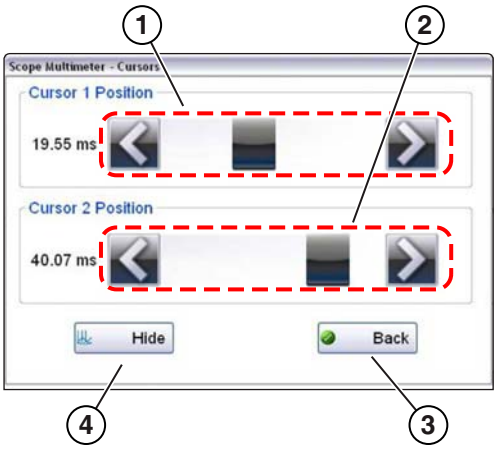
Setup Control

Setup includes the following display options for setting preferences to review captured traces.

- **Traces** - shows original captured trace settings. Changes are not allowed, except adjustment of the baseline setting.
- **Sweep** - shows original captured sweep setting. Changes are not allowed.
- **Trigger** - shows original captured trigger setting. Changes are not allowed.
- **View** - allows you to change display settings.
  - **Display** - adjust display information and appearance.
    - **Show Grid** - toggles grid lines on and off.
    - **Invert Colors** - toggles screen background black to white.
    - **Show RPM** - displays RPM display. (Not Used)
  - **Layout** - use to set how many trace display windows are shown and how they display on the screen.
  - **Units** - use to adjust trace display settings.
- **Setup** - shows original captured trace settings.
  - **Units** - shows original captured trace unit setting.
  - **Snapshot** - shows original percentage of how much data was captured after the snapshot was triggered.
  - **Ignition** - shows original captured trace ignition setting.

Cursors Control

Select **Cursors** from the toolbar to open the Cursors dialog box (Figure 7-15).



1— Cursor 1 controls
2— Cursor 2 controls
3— Back
4— Show or Hide

Figure 7-15 *Cursor controls*

Cursor 1, the top slider and arrows, is the left-hand cursor on the screen. Cursor 2, the lower set of controls, is the right-hand cursor on the screen. Drag the slider or select the arrows to position the cursors. Each tap of the stylus moves the cursor incrementally in the direction of the arrow.

Select **Show** to display the cursors (the icon changes to Hide).

Select **Hide** to conceal the cursors (the icon changes to Show).

Select **Back** to close the dialog box.

Refresh Control

This function is not operational in Scope Viewer.

File Control

Selecting **File** from the toolbar opens a dialog box with a menu of save options:

- **Save Configuration** - allows the current settings to be saved using a different name using the VSC file format. (.VSC files can be viewed by selecting the Presets tab)
- **Save Single Frame** - allows the current screen data to be saved using a different name using the VSS file format. (.VSS files are “single frame” or partial files)
- **Save All Frames** - allows the current file to be saved using a different name using the VSM file format. (.VSM files include “all frames” or complete files)

To save a file:

1. Select **File** from the toolbar.
2. Select a save option from the dialog box.

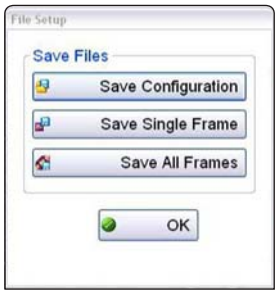


Figure 7-16 *File setup dialog box*

The Save As dialog box and the virtual keyboard open.

3. Use the keyboard to name the file to be saved, then either select **Save** or select **return** on the keyboard.

   A configuration description dialog box opens.

NOTE:
The description entered here is what displays in the information panel of the Data Manager.

4. Use the keyboard to enter a description of the file to be saved.
5. Select **OK** or select **return** on the keyboard.
6. Select **OK** to close the file setup dialog box.

Print Control

Selecting **Print** from the toolbar opens a standard Windows Print dialog box to print the current screen.

Print Preview Control

Selecting **Print Preview** from the toolbar opens a print preview window. The Print Preview menu options allow you to adjust the page layout before printing.

7.2.2 Main Body

The main body of the screen varies depending on what display options have been selected. Up to four traces, signal status and triggering conditions can be displayed simultaneously on the main body of the screen.

Each trace is displayed as voltage over time on a standard oscilloscope screen. Voltage level is shown on the vertical (“y”, axis), and time is shown on the horizontal (“x”, axis) of the screen. Values are shown for each graduation on the scales.

Trace adjustments are made from the Toolbar and the Profile Controls window. However, you can only adjust the following in the main body:

- Cursor position: touch and drag the cursor to reposition it.
- The baseline position (0 value) of the trace can be repositioned on the horizontal scale by touching and dragging the solid bar at the right-side of the channel baseline.

7.2.3 Profile Controls Window

The Profile Controls Window displays the original captured trace profile settings.

Figure 7-17 *Profile Controls Window*

Profile settings cannot be changed, except the signal channel Show/Hide settings.

The show/hide trace icons are used to toggle the displayed signal channel off/on.

Show/Hide	Icon	Description
On		Channel displayed
Off		Channel not displayed

Select the icon to toggle the channel off/ on.

NOTE:
Selecting the Channel number from the Profile Control Window opens the Trace Setup dialog box. The Trace Setup dialog box shows the original captured trace settings. Changes are not allowed, except adjustment of the baseline setting.

NOTE:
Selecting the Trigger indicator from the Profile Control Window opens the Trigger Setup dialog box. The Trigger Setup dialog box shows the original captured trace settings. Changes are not allowed.

7.2.4 Playback Control Toolbar

The playback control toolbar includes navigation controls to review recorded data, change the display view and change the screen magnification.

Figure 7-18 *Playback Controls Toolbar*

A position counter in the toolbar displays a numerical value of where the current displayed screen is in relation to the entire recorded file.

Use the slider in the middle of the toolbar to quickly move through paused data.

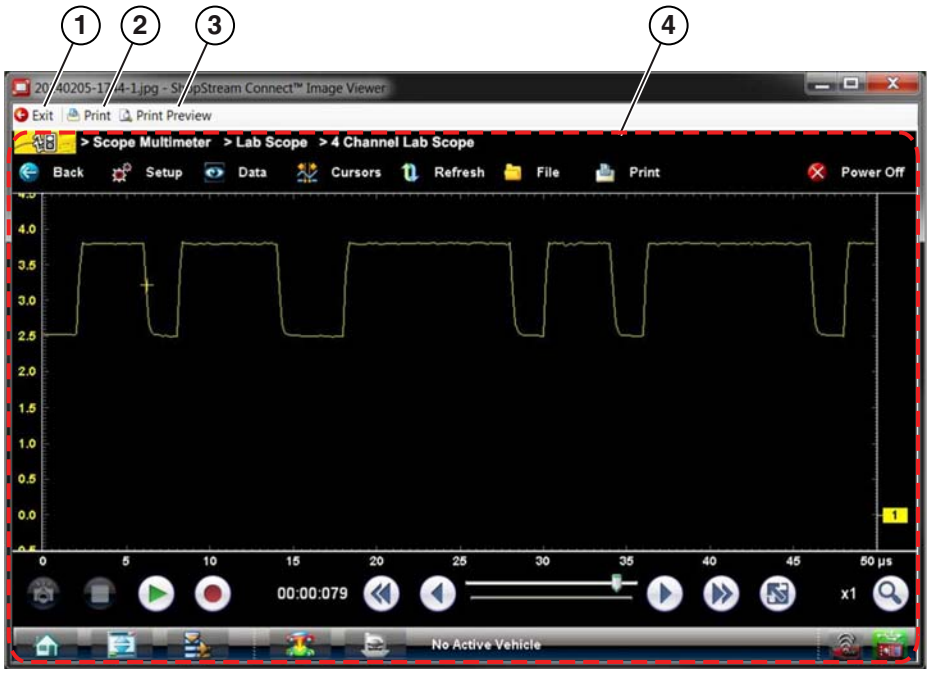
Table 7-2 *Data buffer toolbar icons*

Name	Icon	Description
Step Back		Allows backward movement in singular steps
Skip Back		Allows backward movement in multiple steps
Stop		Stops playback
Play		Starts playback. Plays the recording in a continuous loop.
Skip Forward		Allows forward movement in multiple steps
Step Forward		Allows forward movement in singular steps
Position Indicator		Numerical playback position indicator
Expand/Collapse		Toggles Main body view between split and full profile views
Zoom		Increases or decreases the magnification of the display

7.3 Image Viewer

The Image Viewer allows you to open and view .bmp, .jpg and .sps image files (screenshots).

NOTE:
File extension types vary depending on the Diagnostic Tool. Not all the file extensions described here may be available on your Diagnostic Tool.



1— Exit - closes the Image Viewer

2— Print - prints the image

3— Print Preview - allows the image to be previewed before printing

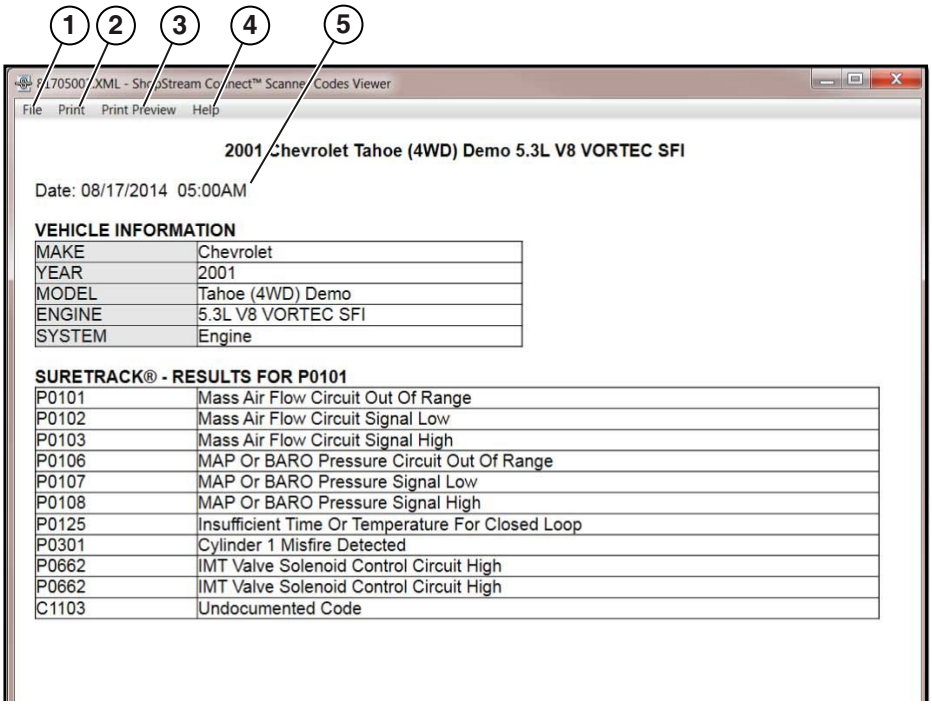
4— Captured Screen Image

7.4 Scanner Code Viewer

The Scanner Code Viewer allows you to open and view XML Scanner code files. Screen layouts and menu descriptions for the Scanner Code Viewer and Scanner Code Viewer Print Preview are shown below.

Vehicle information is shown if available (e.g. VIN, Make, Year etc.)

NOTE:
XML file extensions are not used on all Diagnostic Tools.


1
2
3
4
5
File Print Print Preview Help
2001 Chevrolet Tahoe (4WD) Demo 5.3L V8 VORTEC SFI
Date: 08/17/2014 05:00AM
VEHICLE INFORMATION
MAKE Chevrolet
YEAR 2001
MODEL Tahoe (4WD) Demo
ENGINE 5.3L V8 VORTEC SFI
SYSTEM Engine
SURETRACK® - RESULTS FOR P0101
P0101 Mass Air Flow Circuit Out Of Range
P0102 Mass Air Flow Circuit Signal Low
P0103 Mass Air Flow Circuit Signal High
P0106 MAP Or BARO Pressure Circuit Out Of Range
P0107 MAP Or BARO Pressure Signal Low
P0108 MAP Or BARO Pressure Signal High
P0125 Insufficient Time Or Temperature For Closed Loop
P0301 Cylinder 1 Misfire Detected
P0662 IMT Valve Solenoid Control Circuit High
P0662 IMT Valve Solenoid Control Circuit High
C1103 Undocumented Code

1— File - opens the Exit submenu

- ***Exit*** - closes the Scanner Code Viewer

2— Print - prints the XML file

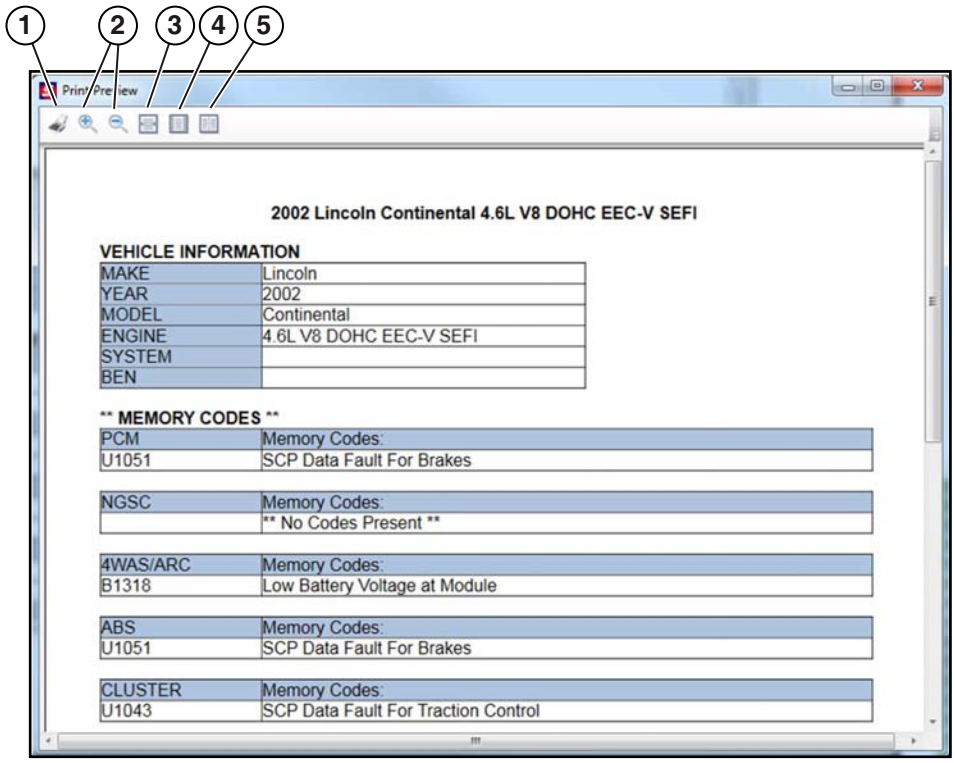
3— Print Preview - allows the image to be previewed before printing

4— Help - Includes the following submenus

- ***About Scanner Code Viewer*** - displays Scanner Code Viewer software version information

5— Date - Displays the date the scan was taken

Figure 7-19 *Scanner Code Viewer Screen*



1— Print (icon) - prints the XML file

2— Zoom In/Out (icons) - Increases/decreases the onscreen magnification

3— View Page Width (icon) - Displays the page to the window width

4— View Entire Page (icon) - Displays the entire page inside the window

5— View All Pages (icon) - Displays all pages inside the window

Figure 7-20 *Scanner Code Viewer Print Preview Screen*

Chapter 8 Updating and Upgrading Software

The following section describes procedures for downloading and installing service release updates and new software version upgrades:

- **ShopStream Connect Software Update**
- **Diagnostic Tool Software Service Release Update**
- **Diagnostic Tool Software Subscription Upgrade**

There are two update/upgrade methods:

- **Automatic Method —** When a compatible Snap-on Diagnostic Tool is connected to a PC using ShopStream Connect (SSC), the SSC software will automatically check for updates/upgrades and provide installation instructions. Follow the screen prompts to accept, download and install the software.
- **Manual Method —** To manually check for software updates/upgrades select **Tools** > **Update Software**, then select either **ShopStream Connect** or your Diagnostic Tool (**Diagnostic Tool type - e.g. MODIS, SOLUS PRO, Vantage Pro etc.)** from the Menu bar.

The following procedures are described using the manual method. The automatic method navigation procedures are the same, except the initial Tools menu selection is not needed as the program checks for updates/upgrades automatically.

Initial Steps:

Perform the following initial steps before proceeding.

1. On your PC start the SSC software program.
2. Connect your Diagnostic Tool to the PC. See the applicable instructions for connecting and establishing communication your Diagnostic Tool to a PC. See, “Connecting a Diagnostic Tool to a PC” on page 11 and “Establishing Communication” on page 14.

NOTE:
The SSC software must be able to access the Internet on your PC.

8.0.1 ShopStream Connect Software Update

Updating ShopStream Connect software:

1. Select **Tools** > **Update Software** > **ShopStream Connect** from the Menu bar (Figure 8-1).

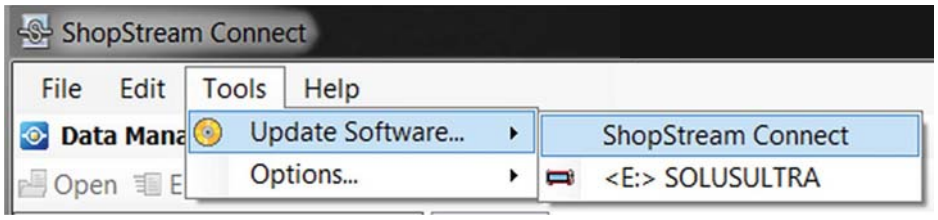


Figure 8-1

The software checks the Snap-on Web server for available updates.

2. If updates are available, select **Next** to continue, then select **Download** and follow the on-screen instructions to complete the installation (Figure 8-2).

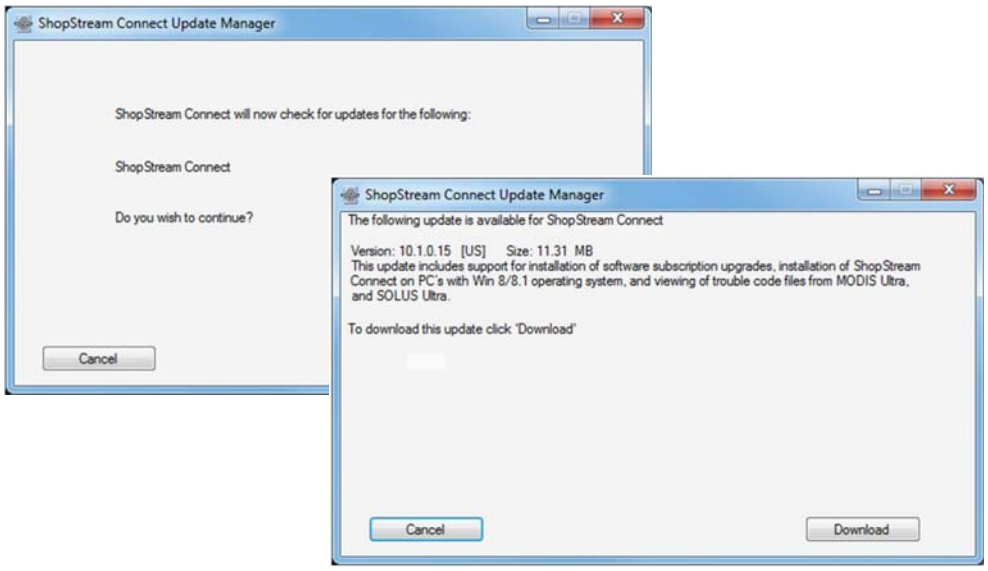

ShopStream Connect Update Manager
ShopStream Connect will now check for updates for the following:
ShopStream Connect
Do you wish to continue?
Cancel
ShopStream Connect Update Manager
The following update is available for ShopStream Connect
Version: 10.1.0.15 [US] Size: 11.31 MB
This update includes support for installation of software subscription upgrades, installation of ShopStream Connect on PC's with Win 8/8.1 operating system, and viewing of trouble code files from MODIS Ultra, and SOLUS Ultra.
To download this update click 'Download'
Cancel
Download

Figure 8-2

8.0.2 Diagnostic Tool Software Service Release Update

Updating Diagnostic Tool software:

1. Select **Tools** > **Update Software** > (**Diagnostic Tool type - e.g. MODIS, SOLUS PRO, Vantage Ultra etc.)** from the Menu bar (Figure 8-3).

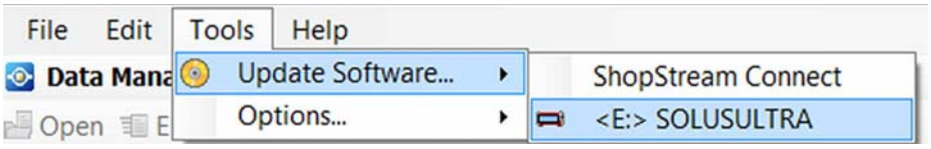


Figure 8-3

The software checks the Snap-on web server for available updates.

2. If service release updates are available, select **Next** to continue, then select **Download** and follow the on-screen instructions to complete the installation (Figure 8-4).

ShopStream Connect Update Manager
ShopStream Connect will now check for updates for the following:
SOLUSULTRA
Do you wish to continue?
The following update is available for SOLUSULTRA
Version: 3.3.1.11769 [US] Size 38.96 MB
SOLUSULTRA 13.4.1. After update us complete: if direct connected, unplug USB cable - if using Compact Flash(CF) insert CF and power up the handheld.
To download this update click 'Download'
Cancel
Download

Figure 8-4

8.0.3 Diagnostic Tool Software Subscription Upgrade

Upgrading Diagnostic Tool software:

1. Select **Tools** > **Update Software** > (**Diagnostic Tool type - e.g. MODIS, SOLUS PRO, Vantage Ultra etc.)** from the Menu bar (Figure 8-5).

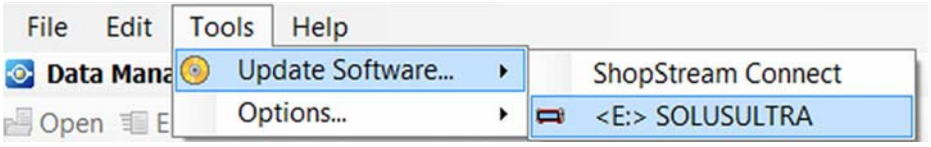


Figure 8-5

- If the Diagnostic Tool is authorized to receive software upgrades and one is available, an upgrade window is displayed (***see step 2***).
- If the Diagnostic Tool is authorized to receive software upgrades and already has the latest software, the following message will be displayed “ShopStream Connect did not find any updates”.

- If the Diagnostic Tool is not authorized to receive software upgrades, SSC software will automatically check the Snap-on web server for a Service Release update. If a Service Release update is available, an update window is displayed. Follow the screen prompts to install the Service Release update.

2. Read and follow the instructions displayed in the message box, then select **Install** to begin the download and installation (Figure 8-6).

NOTE:
Selecting **Upgrade Detail** automatically connects to the Snap-on web server and opens a PDF file with information about the new upgrade.

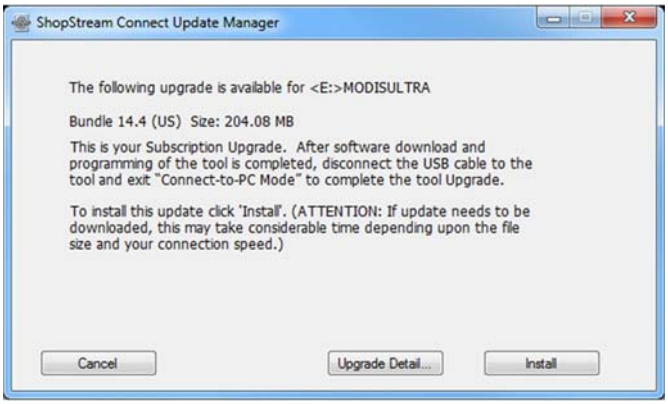

ShopStream Connect Update Manager
The following upgrade is available for <E:>MODISULTRA
Bundle 14.4 (US) Size: 204.08 MB
This is your Subscription Upgrade. After software download and programming of the tool is completed, disconnect the USB cable to the tool and exit "Connect-to-PC Mode" to complete the tool Upgrade.
To install this update click 'Install'. (ATTENTION: If update needs to be downloaded, this may take considerable time depending upon the file size and your connection speed.)
Cancel
Upgrade Detail...
Install

Figure 8-6

The Online Update status window is displayed (Figure 8-7).

Subscription Manager ver. 1.0.9.0
Online Update
Downloading Update...
IMPORTANT!
During file download you may disconnect the Snap-on device. It must be reconnected to install software. The download may be cancelled at any time. Resume download by reconnecting the device.
Downloaded 99.55 MB out of 112.23 MB
SOLUS Ultra.
Cancel Download

Figure 8-7

3. After the download is complete, the installation confirmation message is displayed. Select **Continue** to proceed with the software upgrade installation (Figure 8-8).

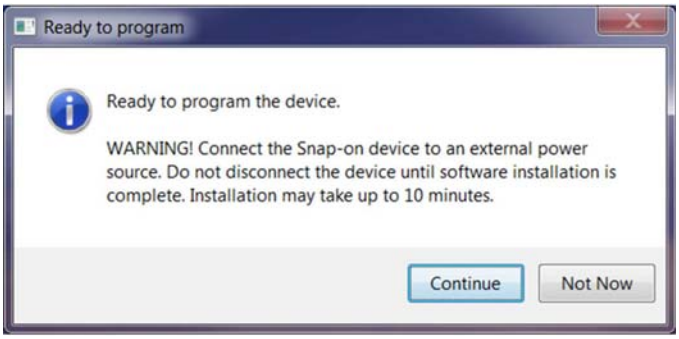

Ready to program
Ready to program the device.
WARNING! Connect the Snap-on device to an external power source. Do not disconnect the device until software installation is complete. Installation may take up to 10 minutes.
Continue
Not Now

Figure 8-8

The Programming status window is displayed until programming is completed. Once programming is completed select **Exit**, then restart the Diagnostic Tool (Figure 8-9).

IMPORTANT:
Do not disconnect or remove the Diagnostic Tool during programming.

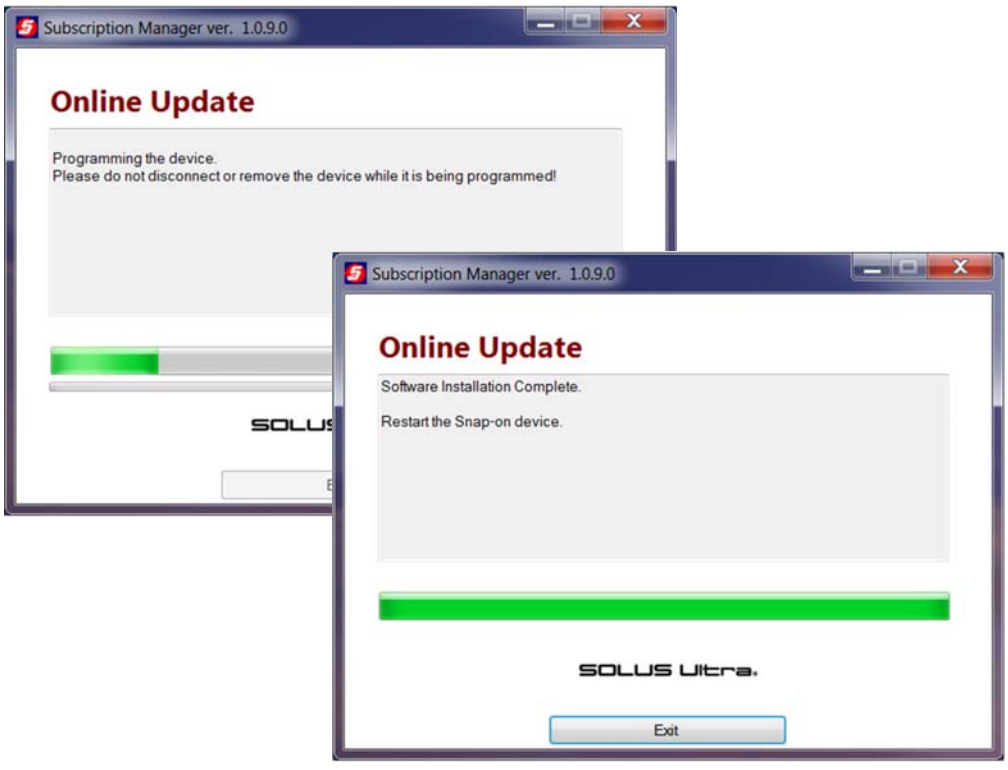


Figure 8-9

Appendix A Communicating with Early MODIS Diagnostic Tools

The original MODIS printed circuit board design did not have a mini A USB port by the side CompactFlash® (CF) card slot. Therefore, these Diagnostic Tools cannot be directly linked to a computer with a USB cable. However, it is possible to view files stored on an early MODIS with the ShopStream Connect™ software, it just requires a few extra steps.

A.1 Viewing Early MODIS Files

A CF card reader that connects to your personal computer (PC) is required to view early MODIS files. The CF reader is a standard item that may be purchased from most computer and office supply retailers.

To view early MODIS files:

1. Turn off the MODIS Diagnostic Tool.
2. Remove the CF card from your MODIS.
3. Connect the CF card reader to your PC and insert the MODIS CF card.
4. If a “removable disk” dialog automatically opens on your PC, select **Cancel**.
5. Launch ShopStream Connect.

   ShopStream Connect should recognize the CF card as a MODIS and show it as an available selection in the directory tree. If not:

   a. Open the CF card through Windows®.

   b. Open the User folder, then open the Data folder.

      A list of saved data files displays.

   c. Copy the files you want to view in ShopStream Connect.

   d. Open the target folder (C:\Documents and Settings\All Users\Application Data\ShopStream\MODIS Files) on your computer.

   e. Paste the files into the target folder.

   These files are now ready for viewing with ShopStream Connect.

IMPORTANT:
Do not change or alter files in any of the other locations on the CF card, as this could impact the operation of your MODIS Diagnostic Tool

A.2 Service Releases and early MODIS Diagnostic Tools

To deliver service releases to early MODIS Diagnostic Tools:

1. Turn off the MODIS Diagnostic Tool.
2. Remove the CF card from your MODIS.
3. Connect the CF card reader to your PC and insert the MODIS CF card.
4. If a “removable disk” dialog automatically opens on your PC, select **Cancel**.
5. Launch ShopStream Connect.
6. ShopStream Connect should recognize the CF card as a MODIS and show it as an available selection in the directory tree.
7. Select the MODIS from the directory tree.

Refer to “Diagnostic Tool Software Service Release Update” on page 65 to complete the update.

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